

# Parts identification and handling

- 1 Lens
- 3 Recording lamp
- 4 White balance/remote control sensor
- 5 Terminal cover
- 6 Audio-video output terminal [A/V]
- 7 USB terminal [↔]
- 9 Microphone (built-in, stereo)
- 10 Terminal for Magic Wire Remote Control [REMOTE]

## Microphone terminal [MIC]

- A compatible plug-in powered microphone can be used as an external microphone.
- When the unit is connected with AC adaptor, sometimes noise may be heard depending on microphone type. In that case, please switch to battery for power supply and noise will stop.

## 11 Viewfinder

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the viewfinder screen. However, this is not a malfunction and does not affect the recorded picture.

- 12 Delete button [⏮]
- 13 LCD monitor open part [OPEN]
- 14 Battery/DC cable holder
- 15 Power switch [OFF/ON]
- 16 Status indicator
- 17 Mode dial
- 18 Joystick
- 19 Recording start/stop button
- 20 Menu button [MENU]

## 21 Accessory shoe

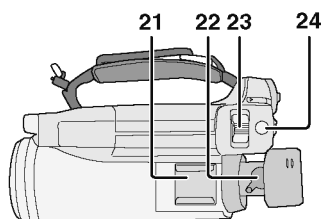
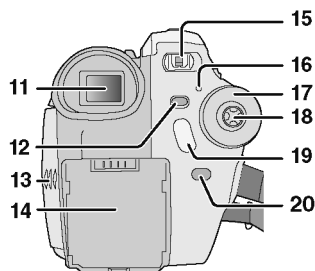
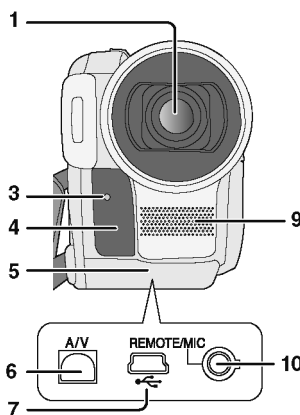
- Accessories, such as a video DC light (optional), are attached here.

## 22 Eyepiece corrector knob

## 23 Zoom lever [W/T]

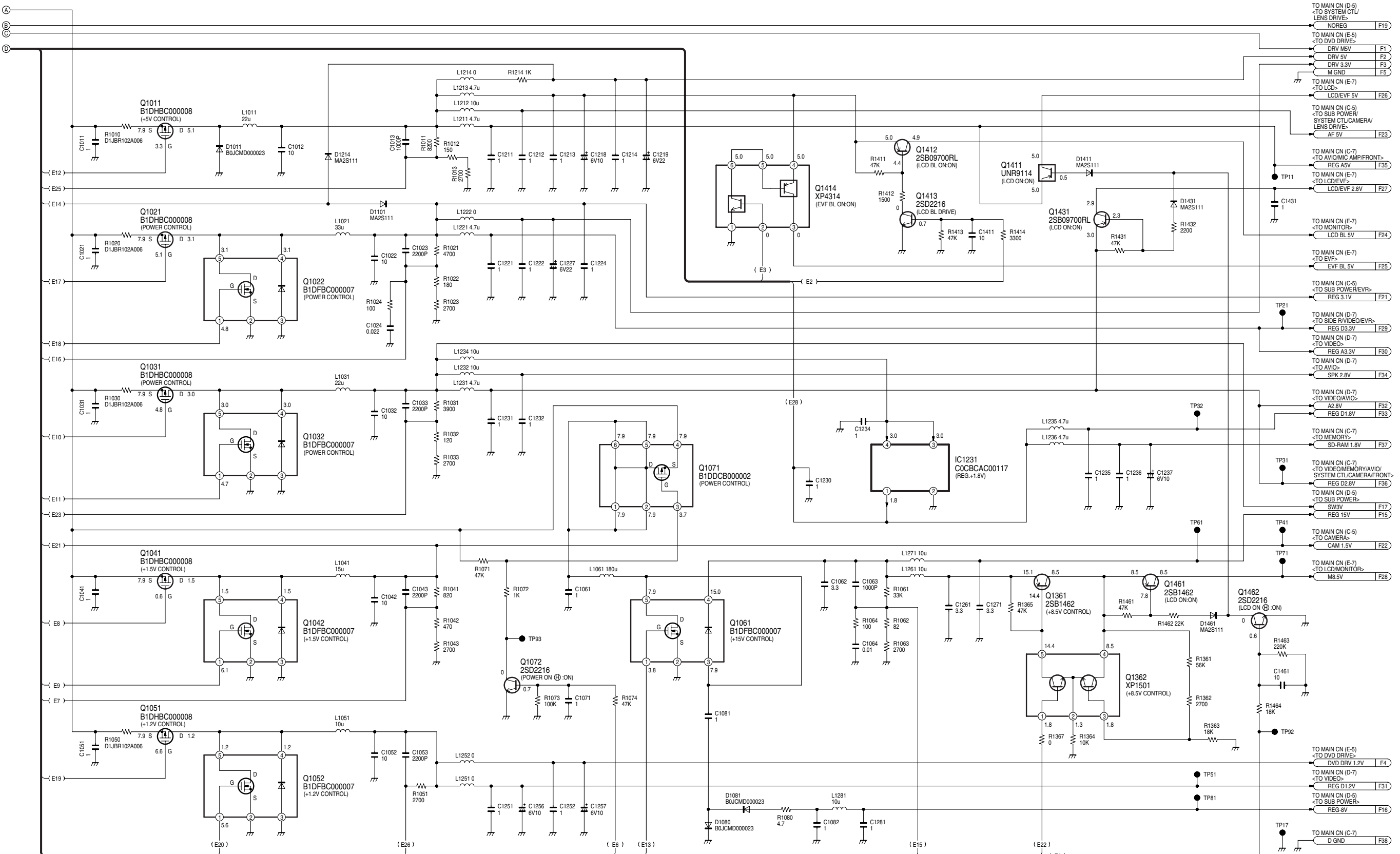
Volume lever [-VOLUME+]

## 24 Photoshot button [PHOTO SHOT]



NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

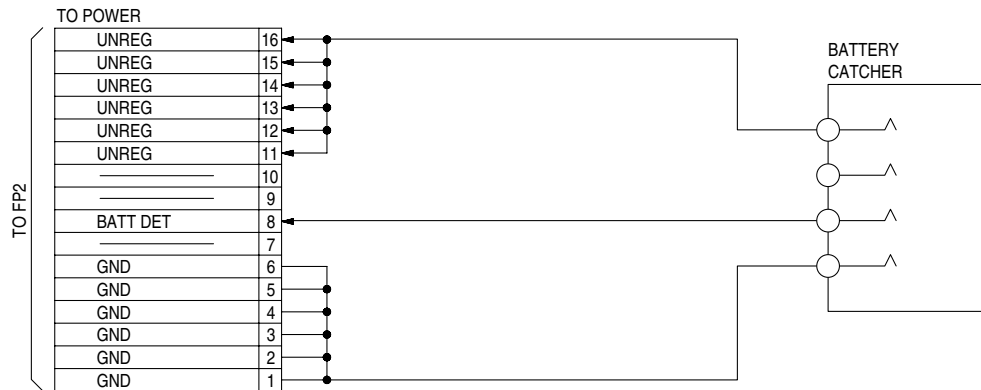
TO MAIN CN (D-5) <TO SYSTEM CTL/ LENS DRIVE>	NOREG	F19
TO MAIN CN (E-5) <TO DVD DRIVE>	DRV M5V	F1
	DRV 5V	F2
	DRV 3.3V	F3
	M GND	F5
TO MAIN CN (E-7) <TO LCD>	LCD/EVF 5V	F26
TO MAIN CN (C-5) <TO SUB POWER/ SYSTEM CTL/CAMERA/ LENS DRIVE>	AF 5V	F23
TO MAIN CN (C-7) <TO DRIVE AMP/FRONT>	REG A5V	F35
TO MAIN CN (E-7) <TO LCD/EVF>	LCD/EVF 2.8V	F27
TO MAIN CN (E-7) <TO MONITOR>	LCD BL 5V	F24
TO MAIN CN (E-7) <TO EVF>	EVF BL 5V	F25
TO MAIN CN (C-5) <TO SUB POWER/EVR>	REG 3.1V	F21
TO MAIN CN (D-7) <TO VIDEO/EVF>	REG D3.3V	F29
TO MAIN CN (D-7) <TO VIDEO>	REG A3.3V	F30
TO MAIN CN (D-7) <TO AVIO>	SFK 2.8V	F34
TO MAIN CN (D-7) <TO VIDEO/AVIO>	A2.8V	F32
	REG D1.8V	F33
TO MAIN CN (C-7) <TO MEMORY>	SD-RAM 1.8V	F37
TO MAIN CN (C-7) <TO VIDEO/MEMORY/AVIO/ SYSTEM CTL/CAMERA/FRONT>	REG D2.8V	F36
TO MAIN CN (D-5) <TO SUB POWER>	SW3V	F17
	REG 15V	F15
TO MAIN CN (C-5) <TO CAMERA>	CAM 1.5V	F22
TO MAIN CN (E-7) <TO LCD/MONITOR>	M5.5V	F28
TO MAIN CN (E-5) <TO DVD DRIVE>	DVD DRV 1.2V	F4
TO MAIN CN (D-7) <TO VIDEO>	REG D1.2V	F31
TO MAIN CN (D-5) <TO SUB POWER>	REG-8V	F16
TO MAIN CN (C-7) <TO CAMERA>	D GND	F38



VDR-D250P/PC MAIN (POWER) SCHEMATIC DIAGRAM

(REAR CASE UNIT)

"FOR REFERENCE ONLY"

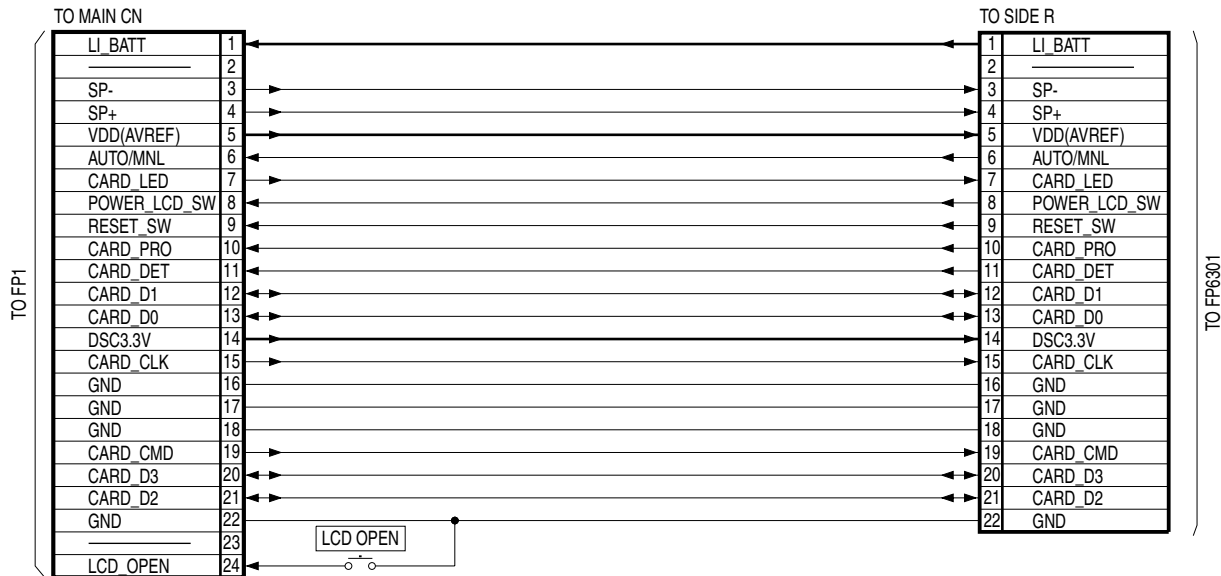


VDR-D250P/PC

REAR CASE UNIT SCHEMATIC DIAGRAM

(SIDE R FPC)

"FOR REFERENCE ONLY"



VDR-D250P/PC  
SIDE R FPC SCHEMATIC DIAGRAM

TO FRONT FPC  
PS6003

	1
	2
	3
	4
	5
	6
	7
	8
TALLY	9
REG D2.8V	10
IR DET	11
IR REMOCON	12
D GND	13
D GND	14
MIC GND	15
MIC GND	16
A M OUT R	17
REG ASV	18
REG ASV	19
A M OUT L	20

TO 3CCD FPC  
FP6001

SIG R	1	SIG R
5V RG	2	
5V RG	3	
V1 R	4	V1 RB
V2 R	5	V2 RB
V3 R	6	V3 RB
V4 R	7	V4 RB
H1 R	8	H1 R
H2 R	9	H2 R
SUB R	10	SUB R
A GND	11	
A GND	12	
A GND	13	
A GND	14	
V1 G	15	V1 G
V2 G	16	V2 G
V3 G	17	V3 G
V4 G	18	V4 G
H1 G	19	H1 G
H2 G	20	H2 G
SUB G	21	SUB G
R	22	R
15V	23	
15V	24	
SIG G	25	SIG G
PT	26	PT
PT	27	
5V B	28	
5V B	29	
V1 B	30	V1 B
V2 B	31	V2 B
V3 B	32	V3 B
V4 B	33	V4 B
H1 B	34	H1 B
H2 B	35	H2 B
SUB B	36	SUB B
A GND	37	
A GND	38	
SIG B	39	SIG B

CAMERA

TO POWER	A1	CAM 1.5V	G-1
	A2	D GND	
	A3	REG ASV	
	A4	REG D3V	
TO CCD	A5	V3 RB	F-1
	A6	V4 RB	
	A7	SIG B	E-1
	A8	SUB B	D-1
	A9	15V	F-1
	A10	SIG R	
	A11	SIG G	
	A12	PT	F-1
	A13	V3 G	
	A14	V4 G	
	A15	V1 G	
	A16	V2 G	
	A17	R	
	A18	SUB G	E-1
	A19	H2 G	
	A20	H1 G	
	A21	H2 B	
	A22	H1 B	
	A23	H2 R	
	A24	H1 R	
	A25	SUB R	D-1
	A26	V1 RB	E-1
	A27	V2 RB	
	A28	A GND	D-1
	A29	CCD5V	

TO SYSTEM CTL

A32	XRE
A33	RW
A34	ALE
A35	

TO SUB POWER

A36	REG D2.5V
A37	SUB 1.8V
A40	3CCD 3V
A38	CAM 15V
A39	CAM -8V

TO VIDEO

A41	MEGA YC(0-7)
A42	YC(0-7)
A43	CLK27A
A44	CLK27CAM
A45	MEGAPIX
A46	MEGABUSY
A47	MEGADSTB

TO SYSTEM CTL

A48	V1V2
A49	BEND
A50	ASP1 CS
A51	ASP2 CS
A52	ASP3 CS
A53	CAM CS
A54	CG CS
A55	CG CLK
A56	CG SO
A57	CCD HD
A58	CAMD30OFF
A60	DSP RST
A61	TVMD
A62	CLK RST
A63	CG RST

TO VIDEOLENS DRIVE

A64	CLK45
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TO LENS DRIVE

A65	PWM
A66	IRIS OPEN
A67	IRIS CLSE

SUB POWER

TO POWER	B1	REG -8V	B-1
	B2	REG 15V	
	B3	SW3V	F-1
	B4	REG 3.1V	
	B5	D GND	B-1
	B6	VREF	

TO CAMERA

B7	SUB 1.8V	D-9
B8	3CCD 3V	
B9	CAM 15V	
B10	CAM -8V	

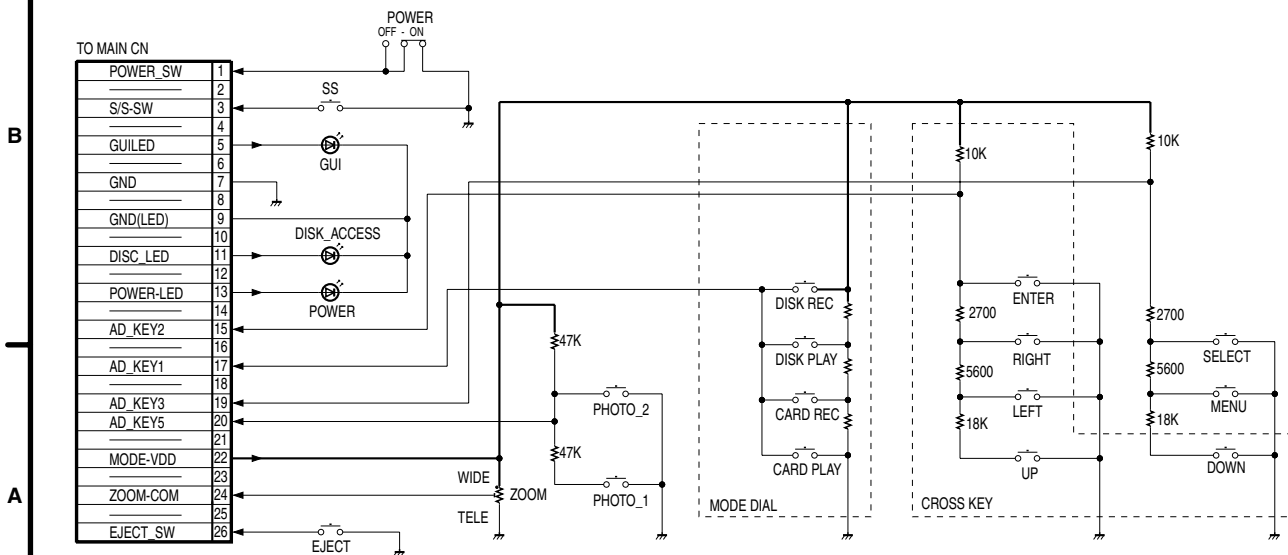
TO SYSTEM CTL

B11	CCD ON H	C-9
B12	REG D2.5V	F-9
B13	REG ASV	F-1
B14	LENS 3V	F-9



(SIDE L UNIT)

"FOR REFERENCE ONLY"



VDR-D250P/PC  
SIDE L UNIT SCHEMATIC DIAGRAM

(SIDE R P.C.B.)

E

D

C

B

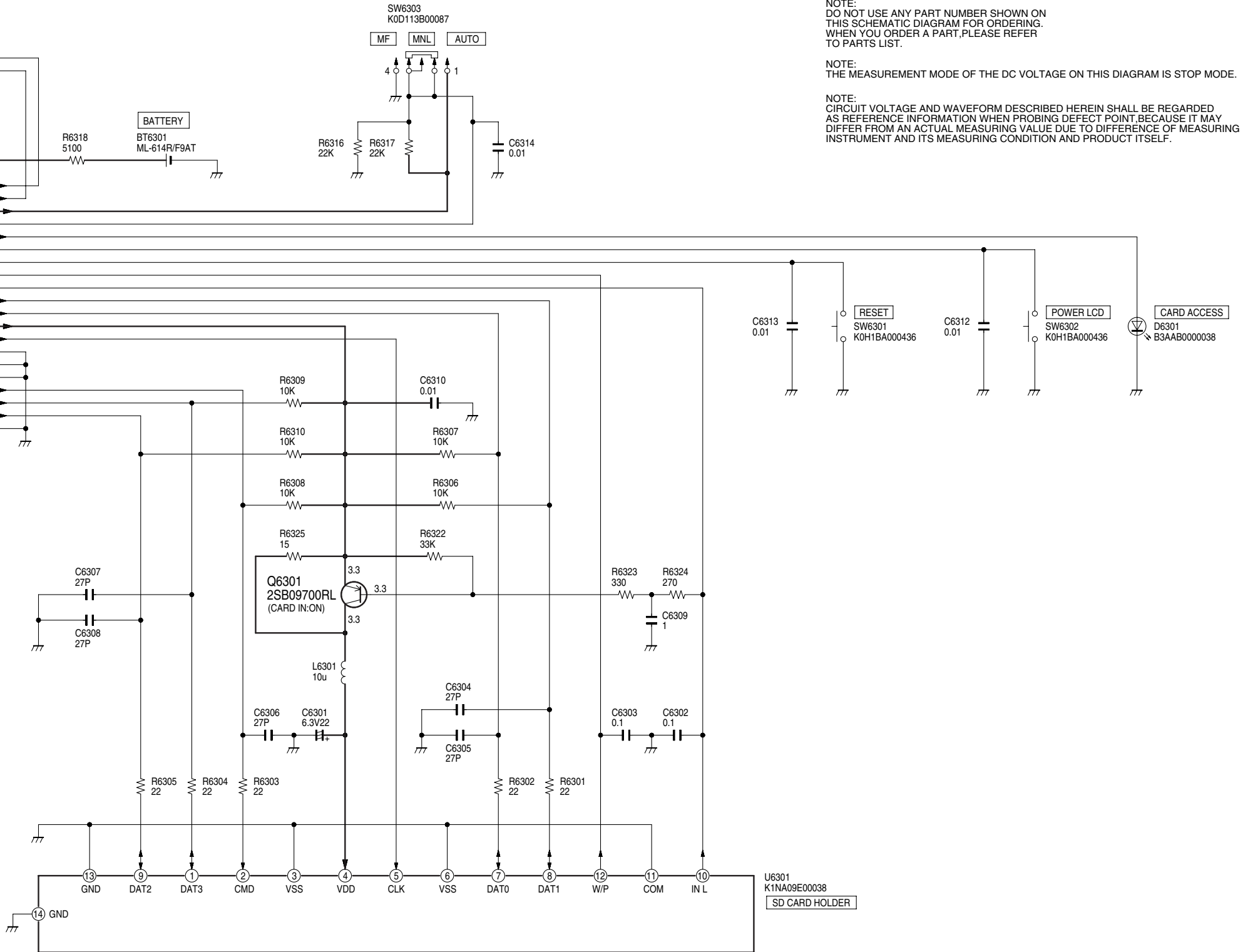
A

TO SPEAKER  
P6301

SP-	1
SP+	2

TO SIDE R FPC  
FP6301

LI BATT	1
	2
SP-	3
SP+	4
VDD	5
AUTO/MNL	6
ACCESS LED	7
POWER LCD SW	8
RESET SW	9
CARD PRO	10
CARD DET	11
CARD D1	12
CARD D0	13
DSC 3.3V	14
CARD CLK	15
GND	16
GND	17
GND	18
CARD CMD	19
CARD D3	20
CARD D2	21
GND	22



NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

VDR-D250P/PC  
SIDE R SCHEMATIC DIAGRAM



(SUB P.C.B.)

REFER TO SUB CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

TO SUB CN (E-8/D-10)  
<TO POWER>

B4	REG 3.1V
B3	SW3V
B13	REG A5V
B2	REG 15V

TO SUB CN (D-10)  
<TO LENS DRIVE>

LENS 3V B14

TO SUB CN (E-10)  
<TO CAMERA/SYSTEM CTL>

REG D2.5V B12

TO SUB CN (D-8)  
<TO POWER>

B6 VREF

TO SUB CN (E-8/D-8)  
<TO POWER>

B1	REG -8V
B5	D GND

TO SUB CN (D-8)  
<TO CAMERA>

3CCD 3V B8

SUB 1.8V B7

CAM 15V B9

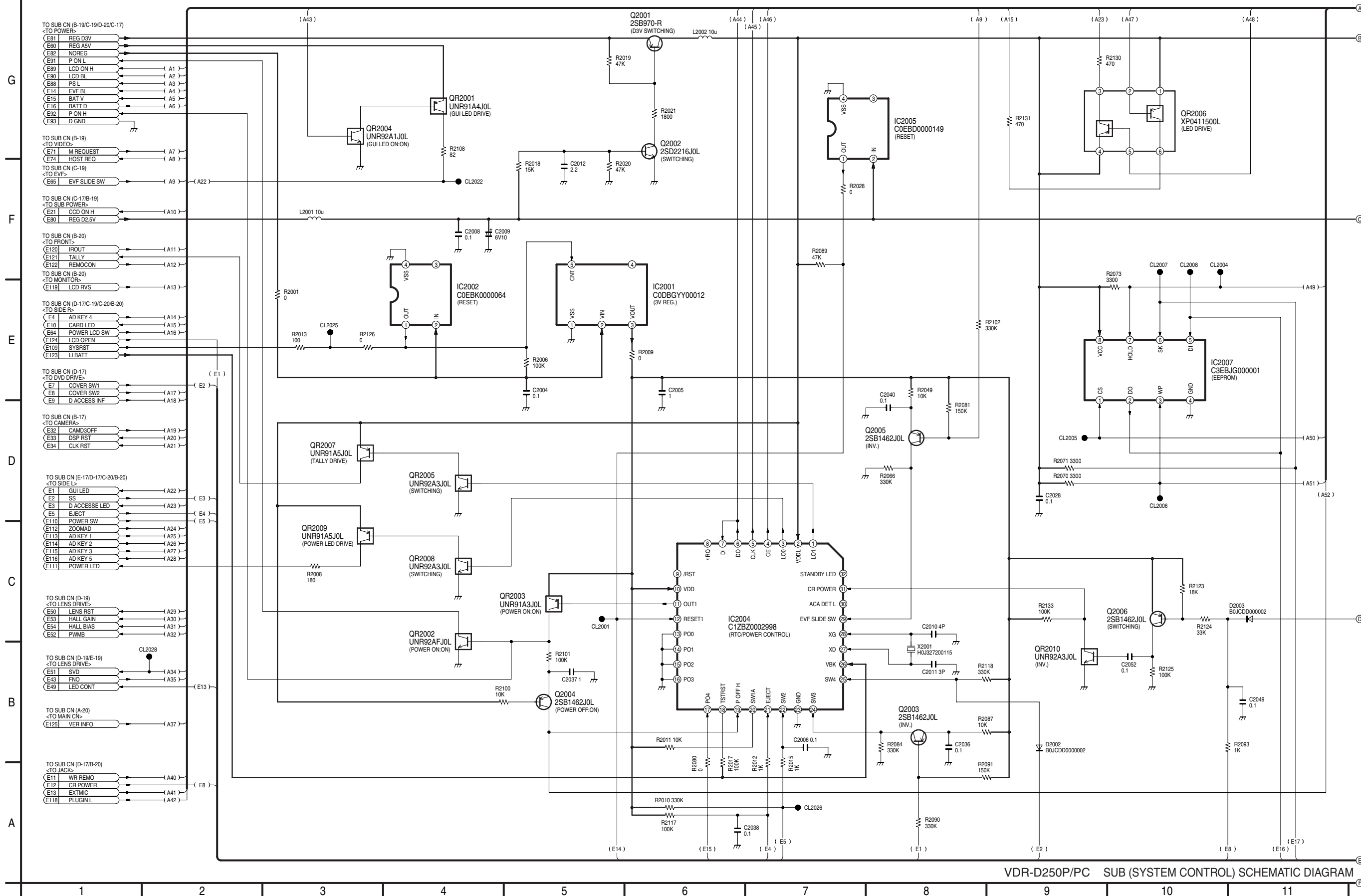
CAM -8V B10

TO SUB CN (E-10)  
<TO SYSTEM CTL>

CCD ON B11

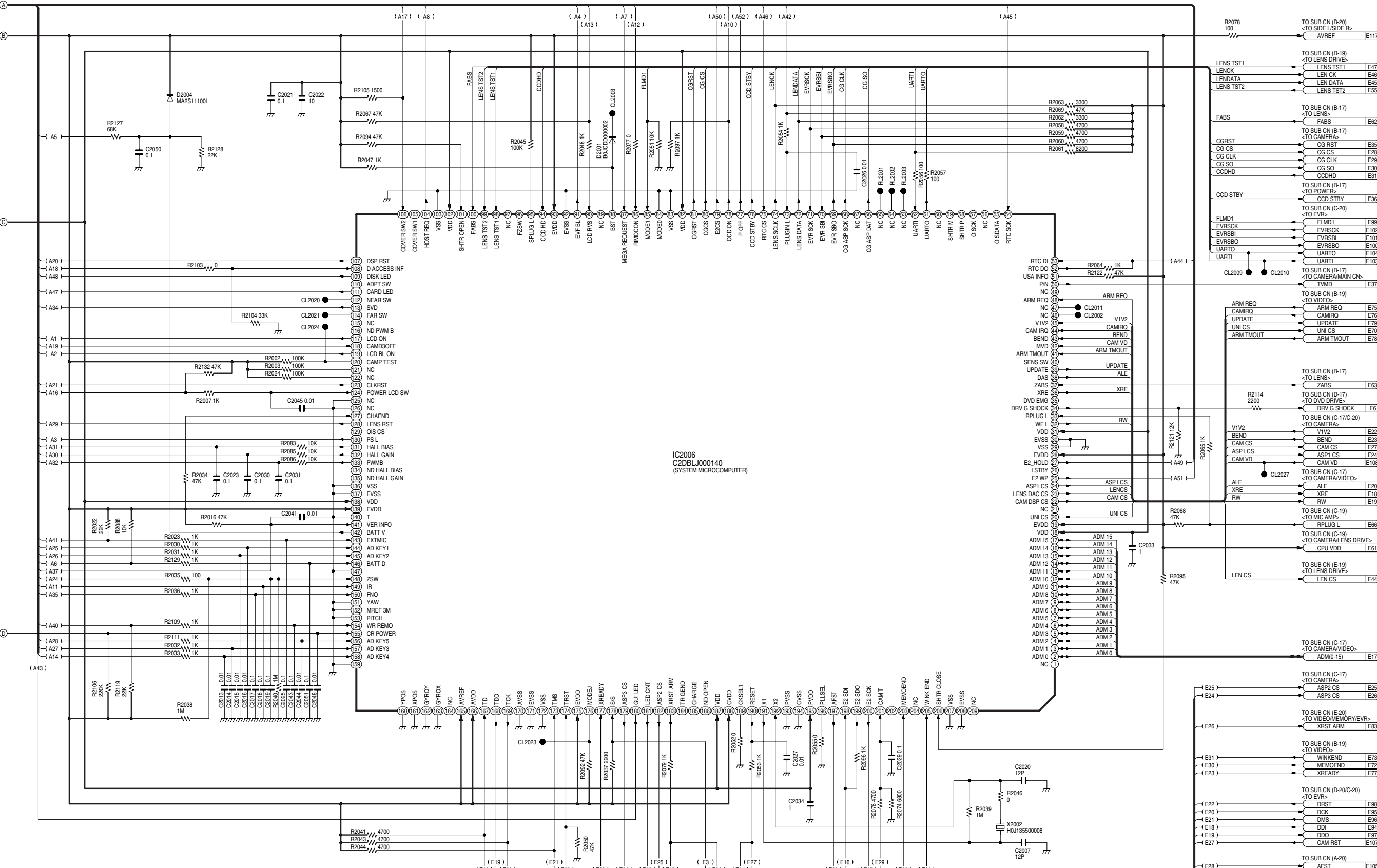
VDR-D250P/PC  
SUB (SUB POWER) SCHEMATIC DIAGRAM

REFER TO SUB CONNECTION



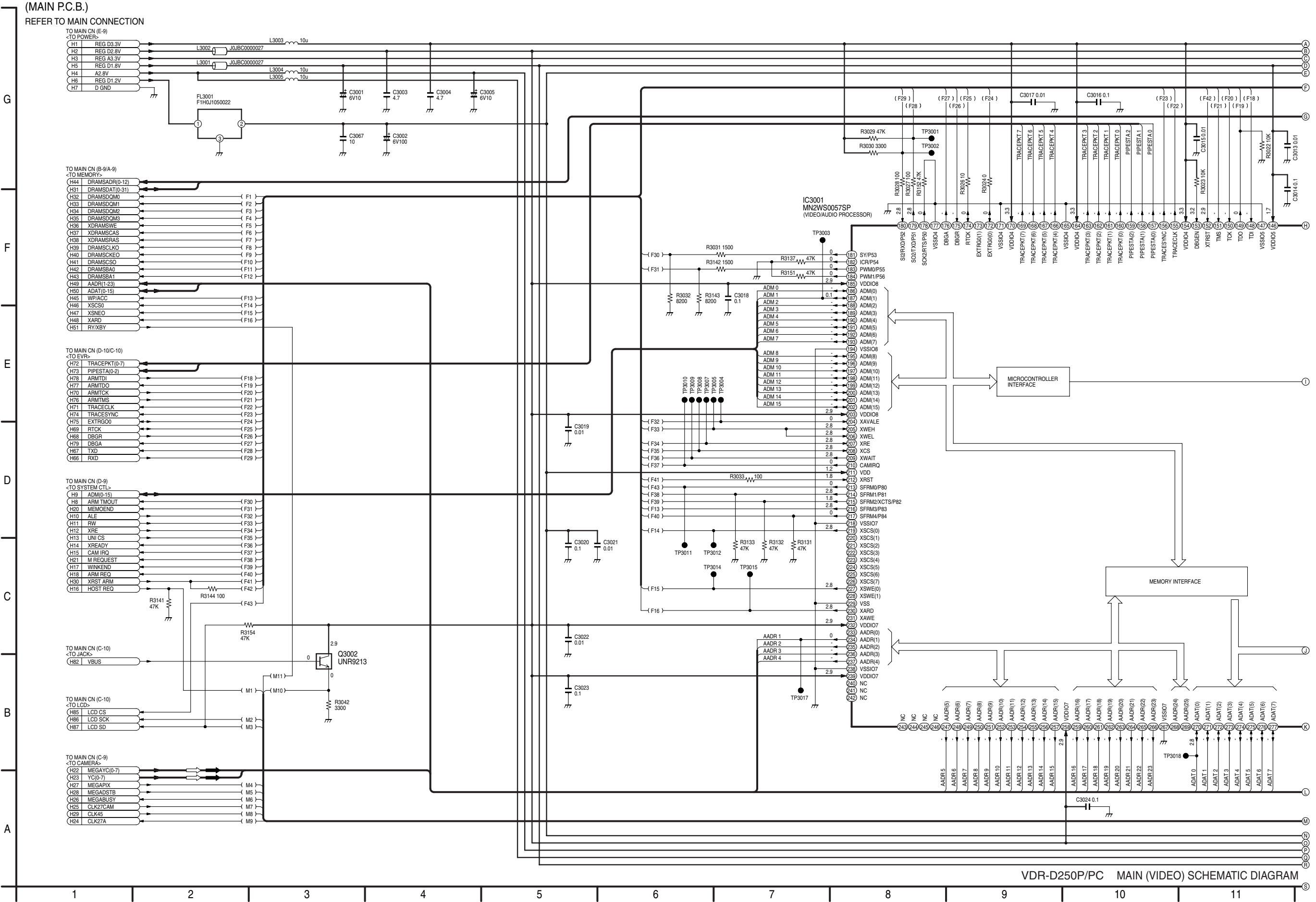
VDR-D250P/PC SUB (SYSTEM CONTROL) SCHEMATIC DIAGRAM

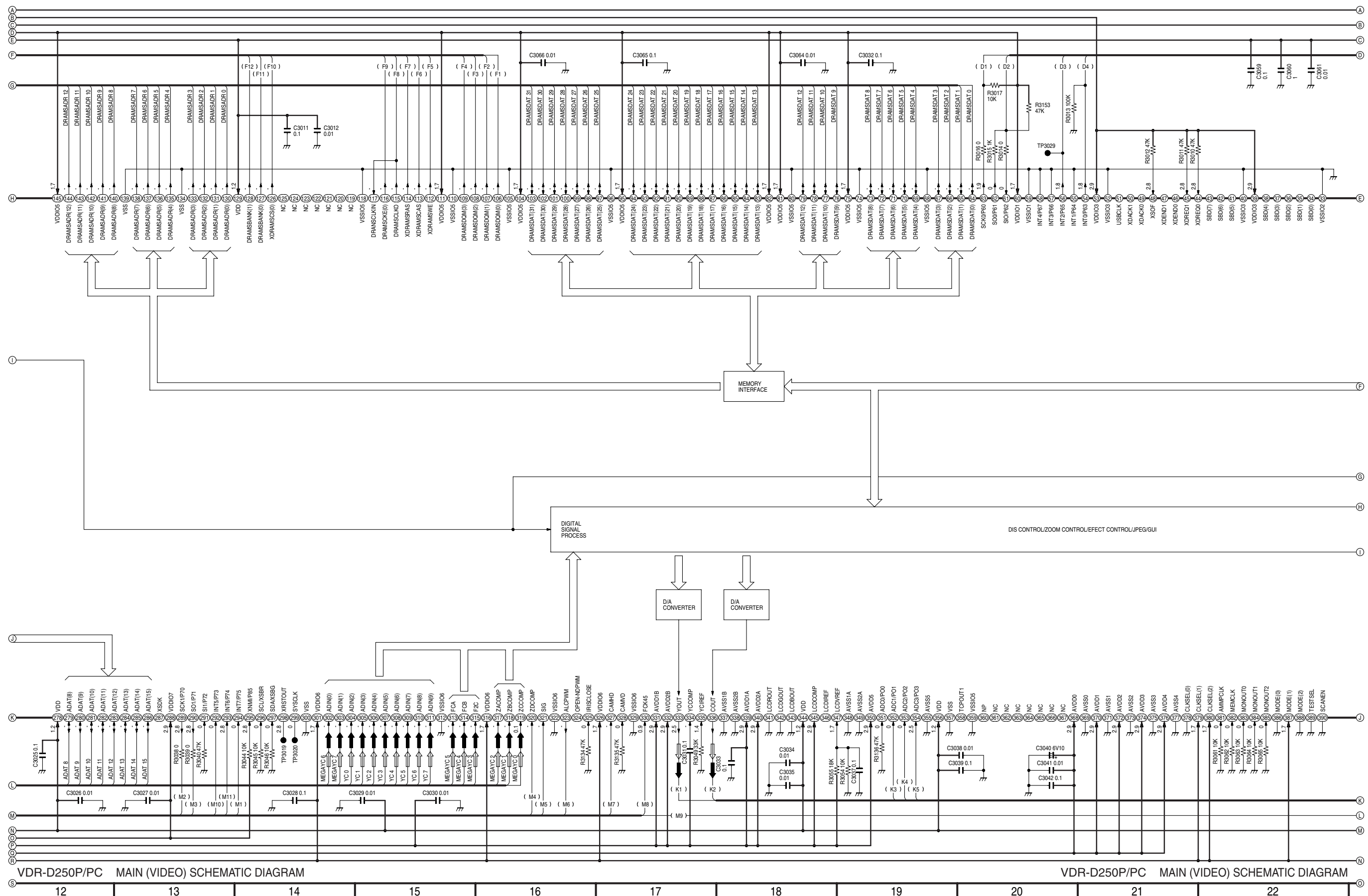
NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.





VDR-D250P/PC SUB (SYSTEM CONTROL) SCHEMATIC DIAGRAM

VDR-D250P/PC SUB (SYSTEM CONTROL) SCHEMATIC DIAGRAM





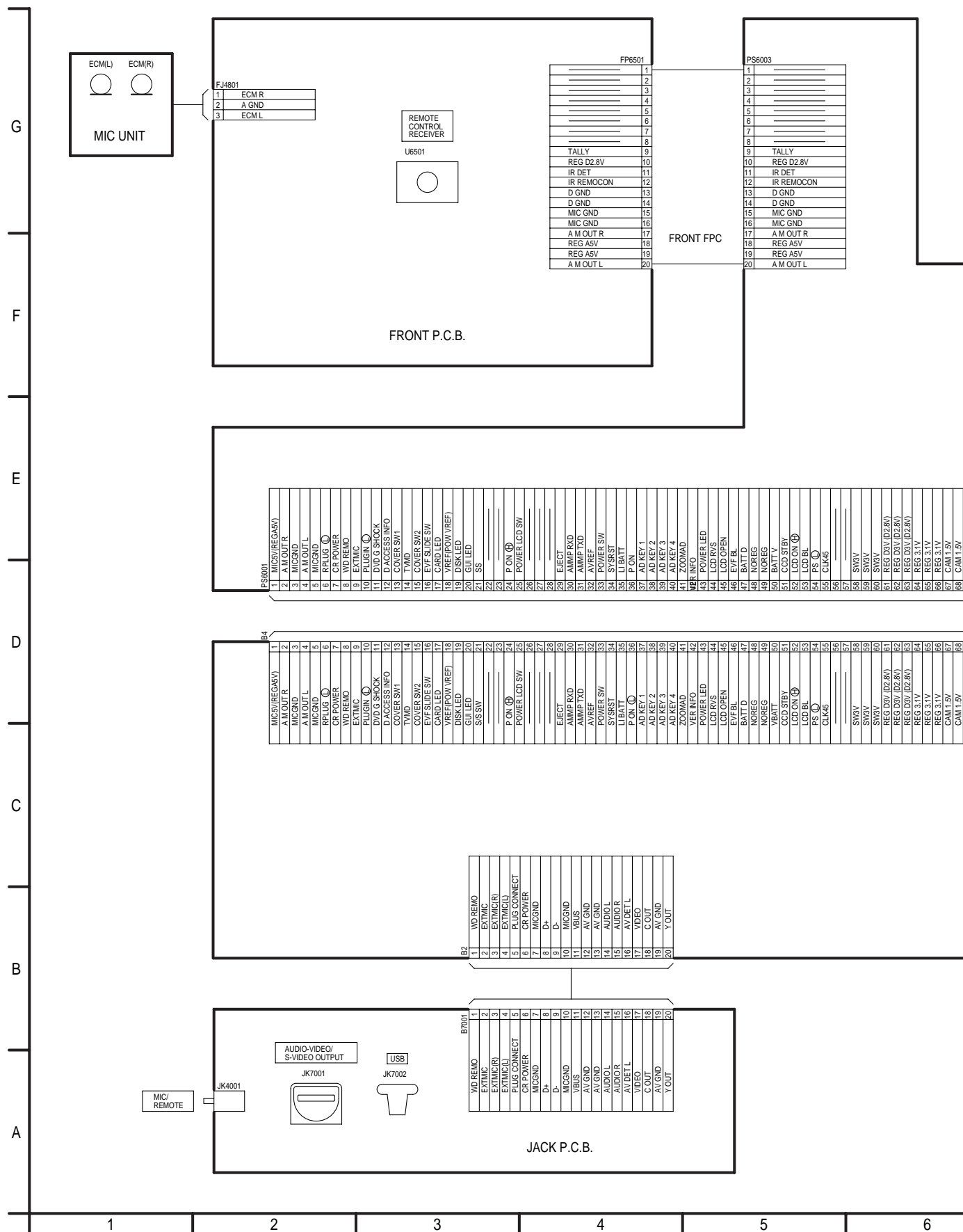
NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD  
MODE.(SP MODE)

 : VIDEO MAIN SIGNAL PATH IN REC MODE  
 : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

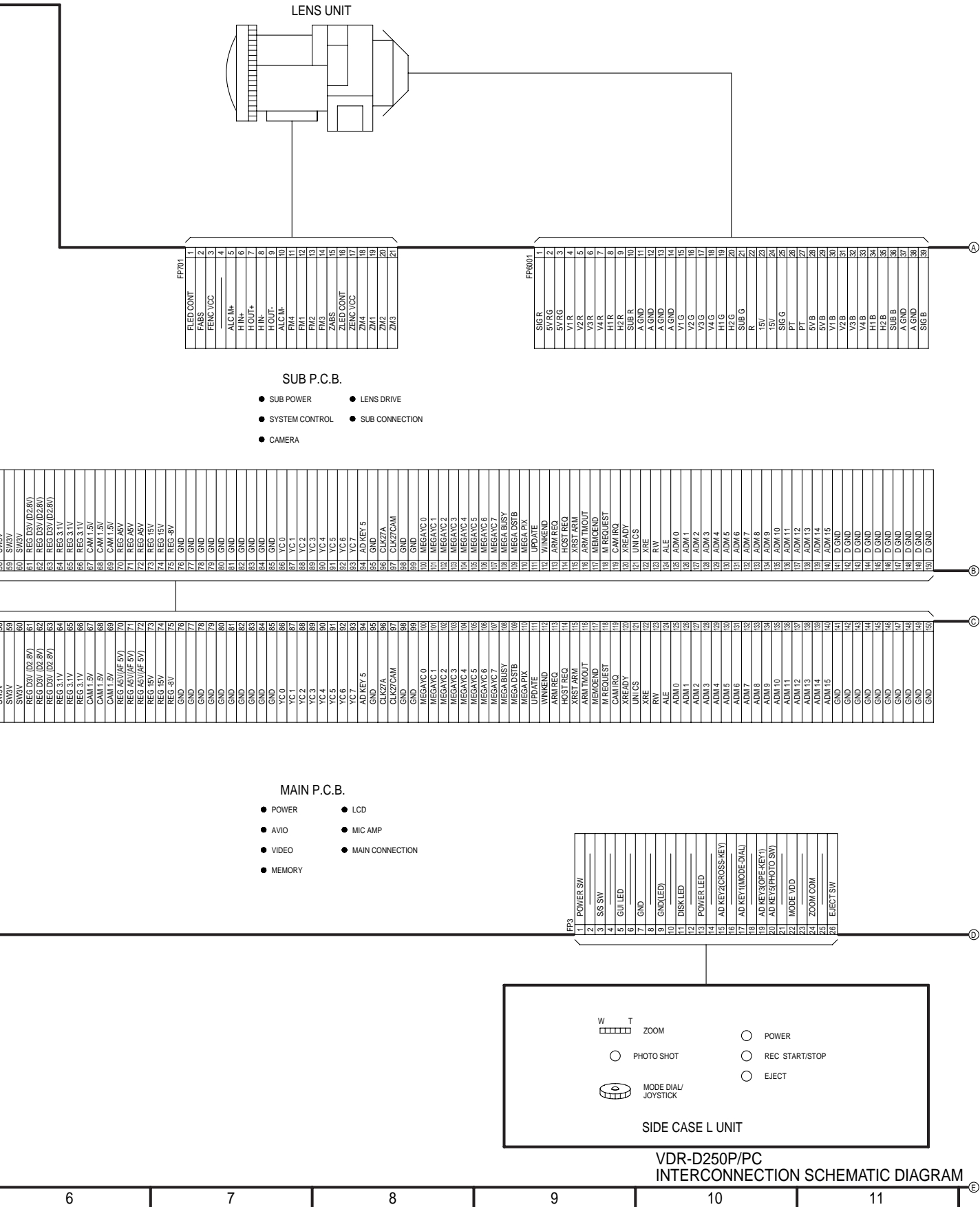
23	24	25	26	27	28	29	30	31	32	33
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# 13 Schematic Diagrams

## 13.1. INTERCONNECTION SCHEMATIC DIAGRAM

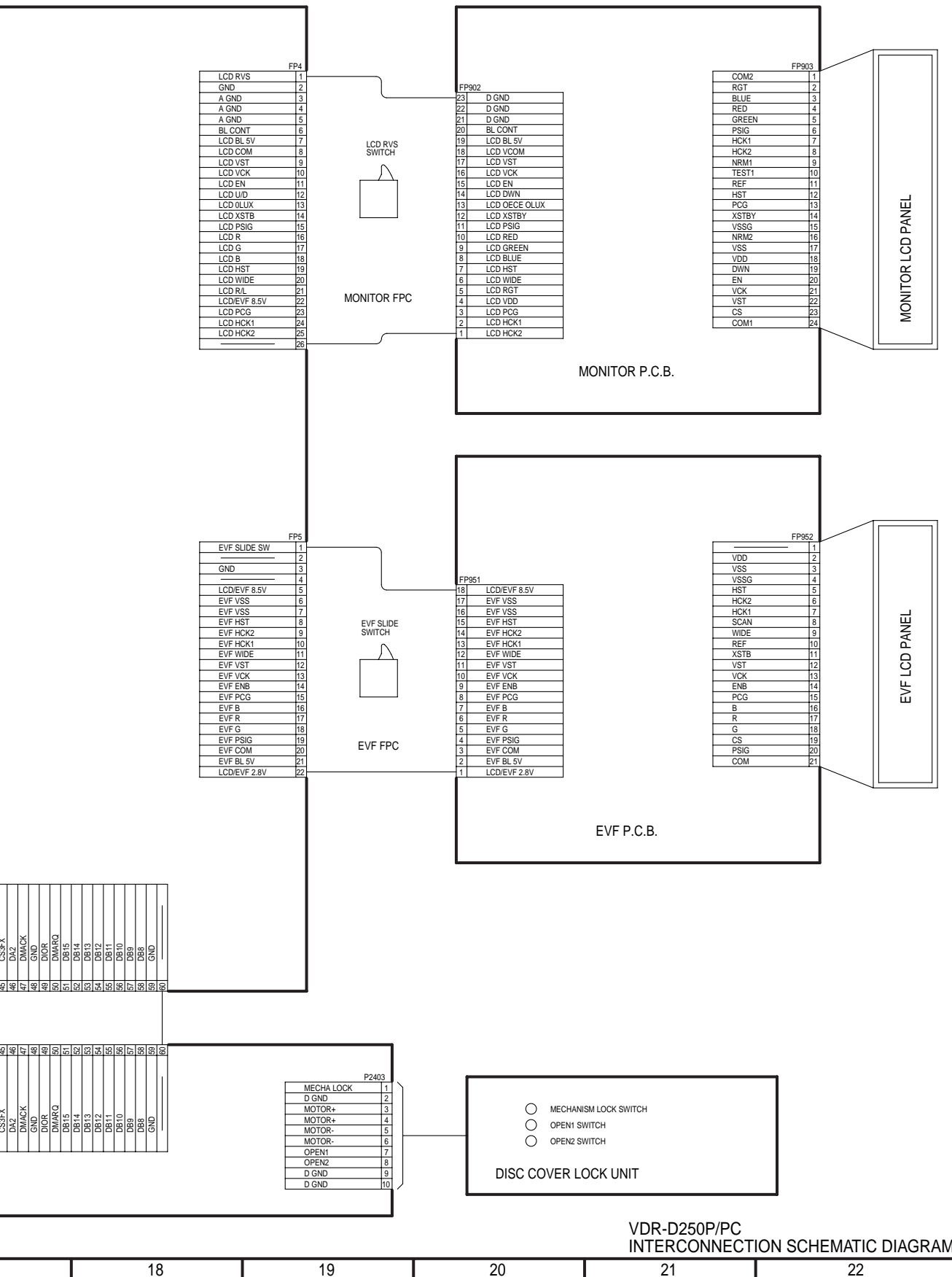












VDR-D250P/PC  
INTERCONNECTION SCHEMATIC DIAGRAM

18

19

20

21

22

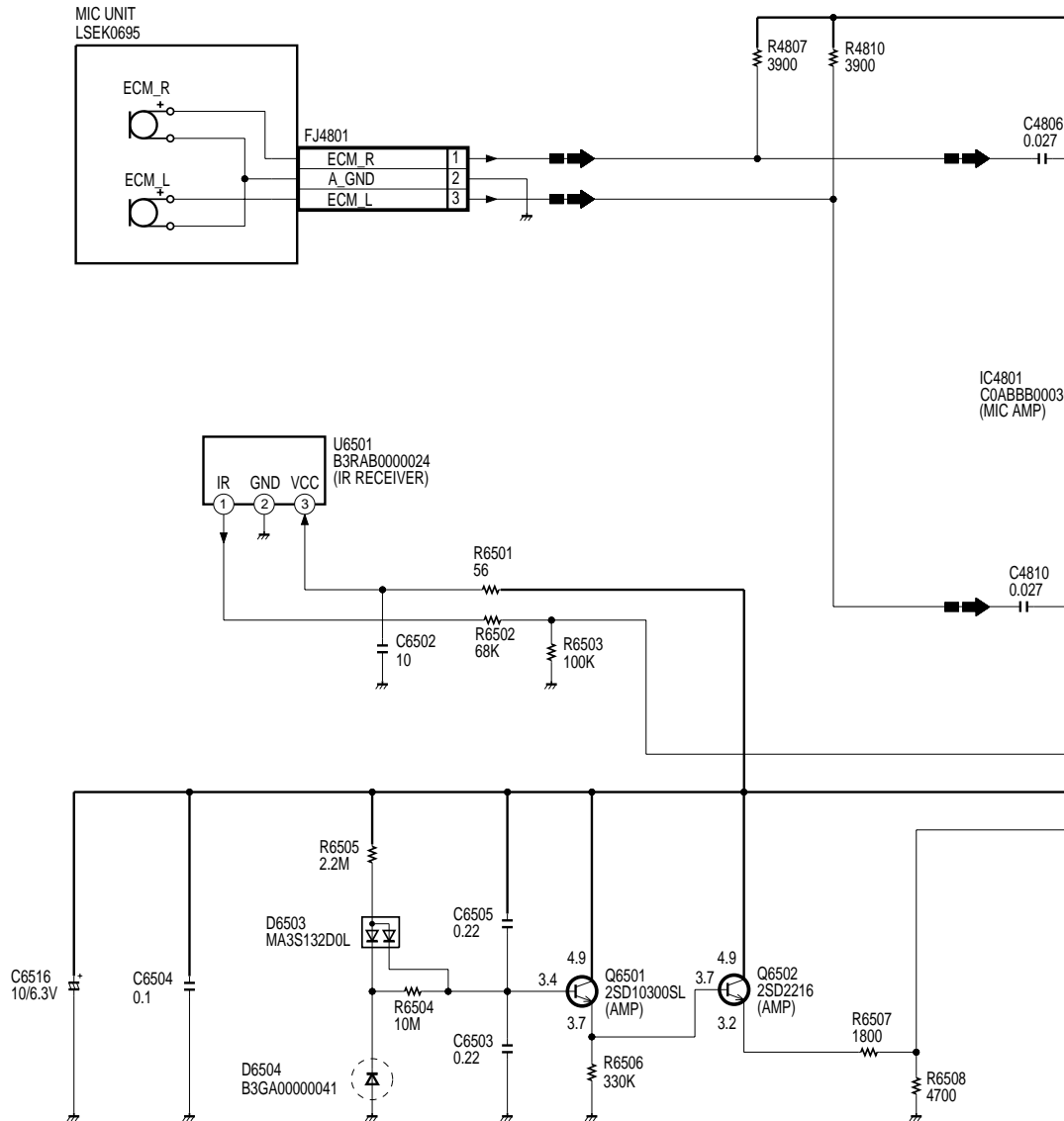
## 13.2. FRONT SCHEMATIC DIAGRAM

(FRONT P.C.B.)

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

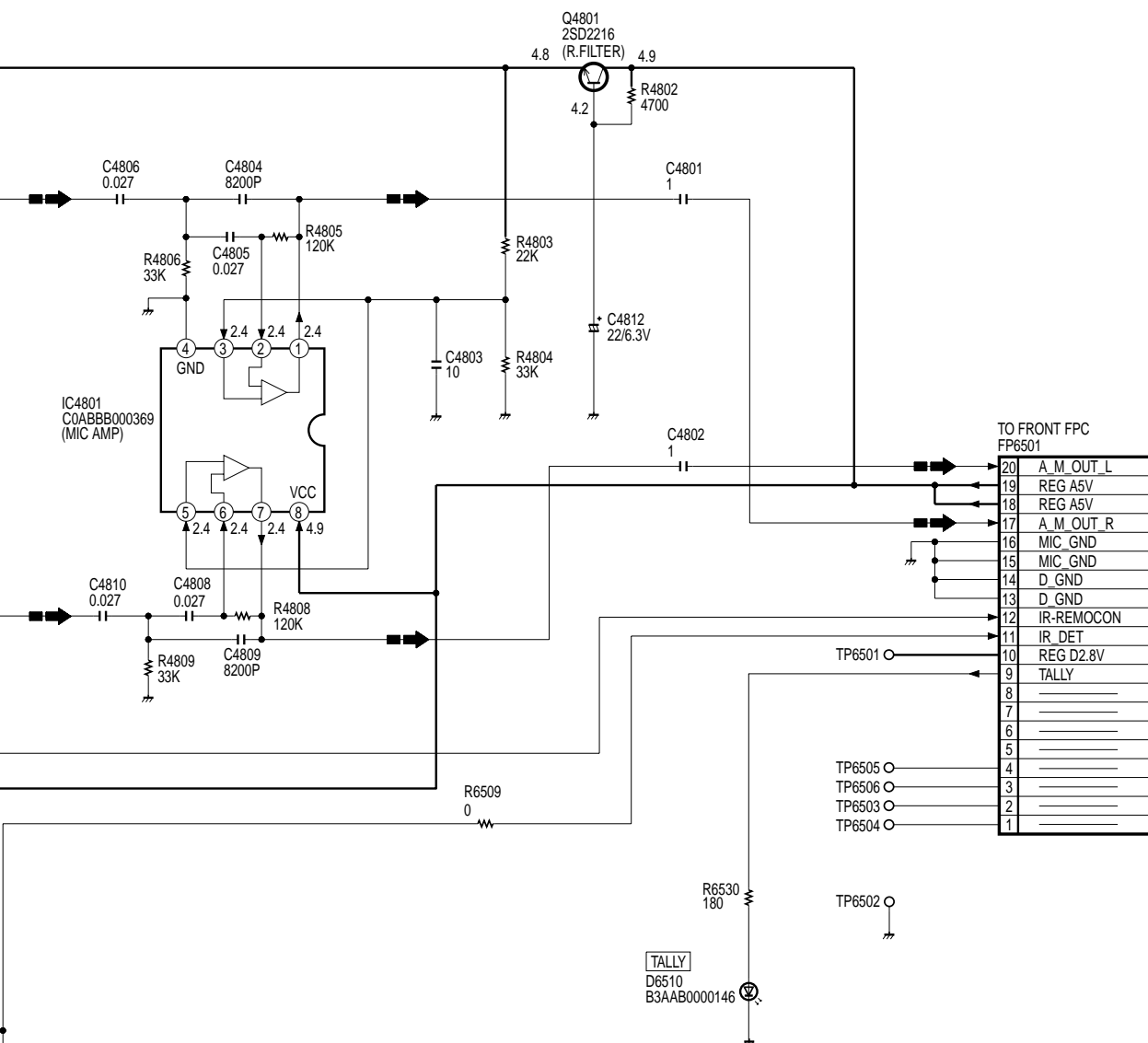
NOTE:  
THE MEASUREMENT MODE OF THE DC  
VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESO  
AS REFERENCE INFORMATION WHEN PRO  
DIFFER FROM AN ACTUAL MEASURING VA  
INSTRUMENT AND ITS MEASURING COND



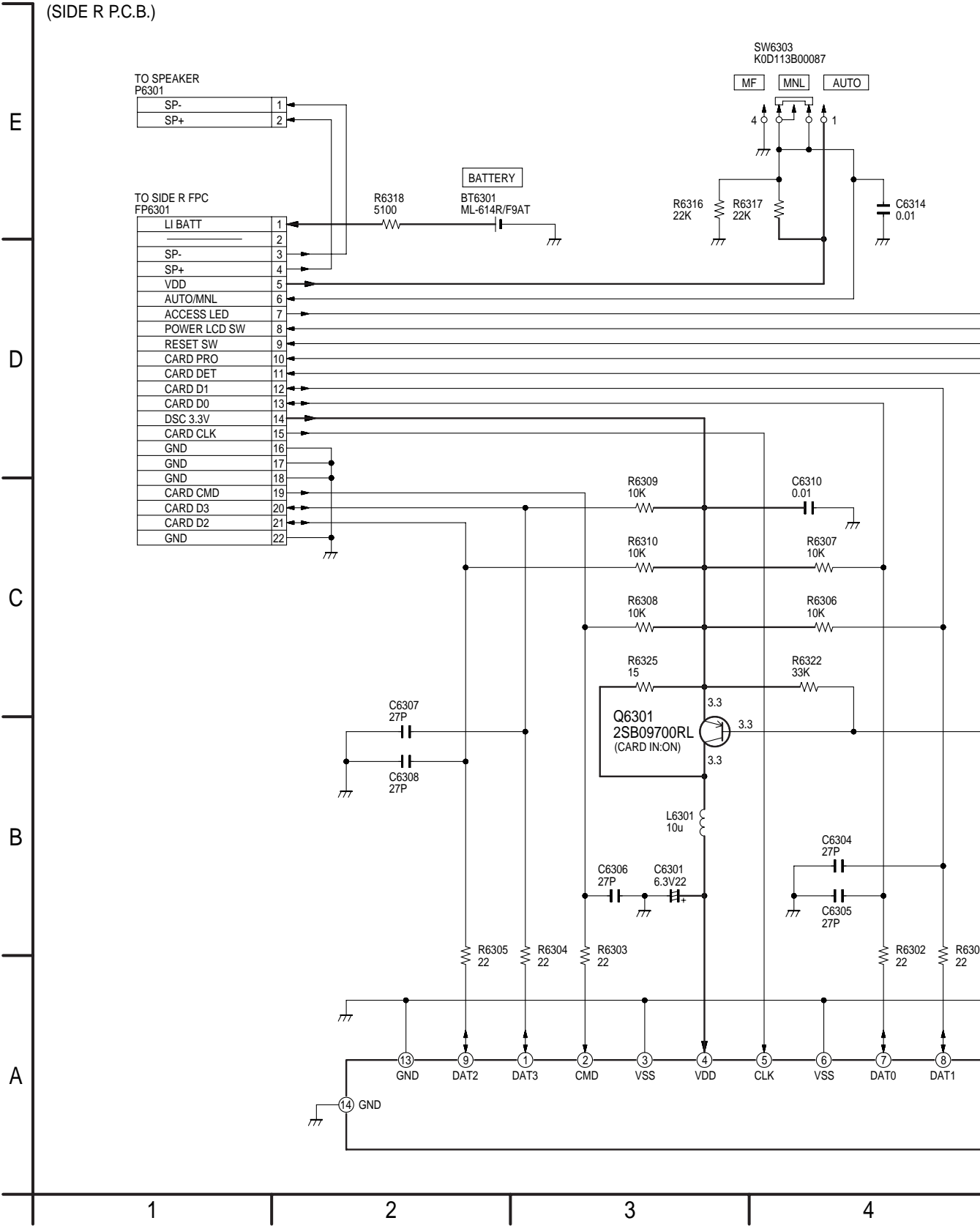
DO NOT WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED AS A DEFECT INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY BE DIFFERENT MEASURING VALUE DUE TO DIFFERENCE OF MEASURING CONDITION AND PRODUCT ITSELF.

➡ : AUDIO MAIN SIGNAL PATH IN REC MODE



VDR-D250P/PC  
FRONT SCHEMATIC DIAGRAM

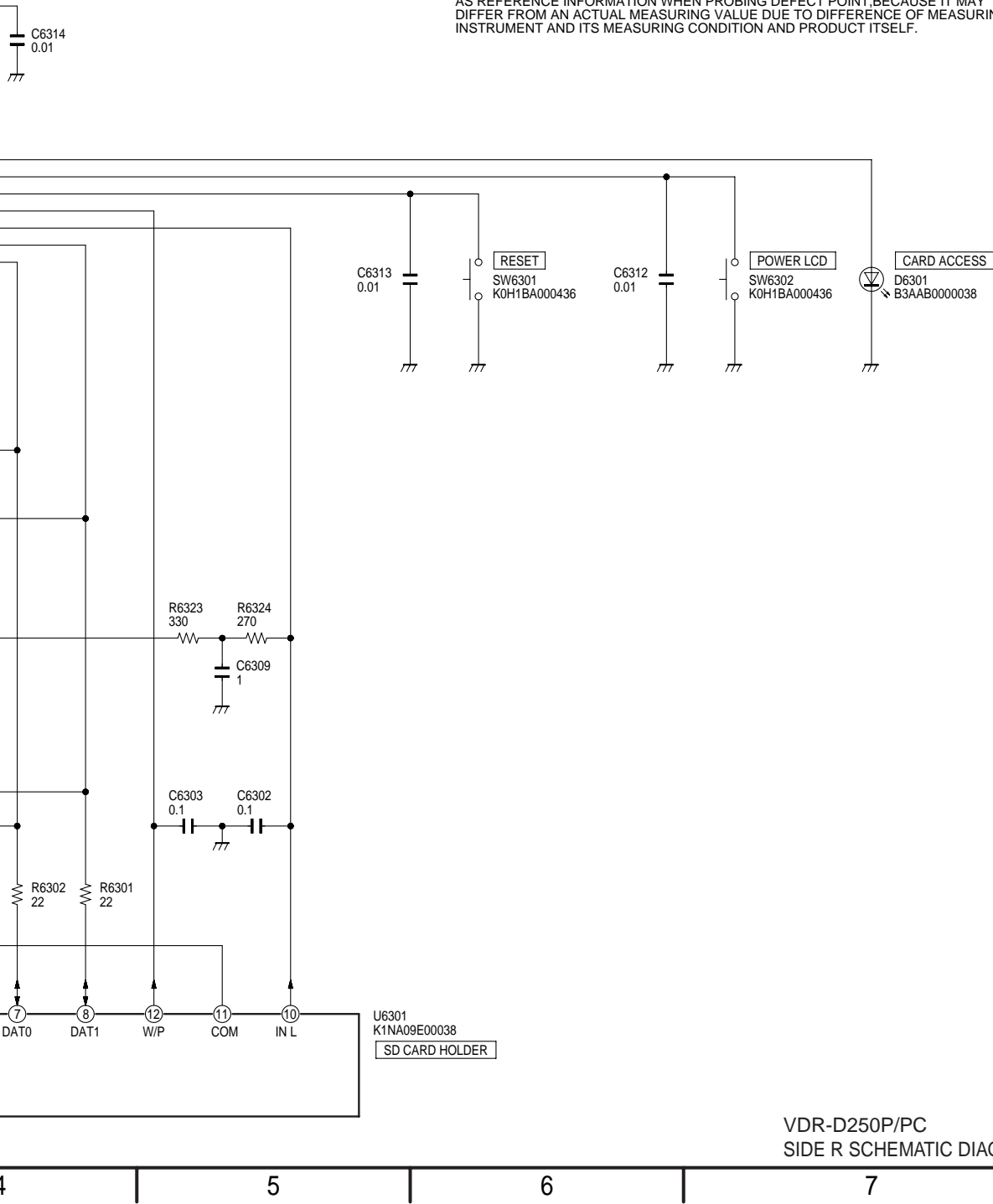
13.3. SIDE R SCHEMATIC DIAGRAM



NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.



VDR-D250P/PC  
SIDE R SCHEMATIC DIAGRAM

## 13.4. MONITOR SCHEMATIC DIAGRAM

(MONITOR P.C.B.)

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS  
DIAGRAM IS STOP MODE.(MONITOR:ON)

NOTE:  
CIRCUIT VOLTAGE AND  
AS REFERENCE INFO  
DIFFER FROM AN ACT  
INSTRUMENT AND ITS

TO MONITOR FPC  
FP902

LCD_HCK2	1
LCD_HCK1	2
LCD_PCG	3
LCD_VDD	4
LCD_RGT	5
LCD_WIDE	6
LCD_HST	7
LCD_BLUE	8
LCD_GREEN	9
LCD_RED	10
LCD_PSIG	11
LCD_XSTBY	12
LCD_OECE_0LUX	13
LCD_DWN	14
LCD_EN	15
LCD_VCK	16
LCD_VST	17
LCD_VCOM	18
LCD_BL_5V	19
BL_CONT	20
D_GND	21
D_GND	22
D_GND	23

EP901  
VMC1897

D902  
B0BC6R100025  
(6.1V)

D905  
B3AFB0000117

D906  
B3AFB0000117

D907  
B3AFB0000117

D908  
B3AFB0000117

Q902  
2SC6054J0L  
(BACKLIGHT DRIVE)

Q903  
2SC6054J0L  
(BACKLIGHT DRIVE)

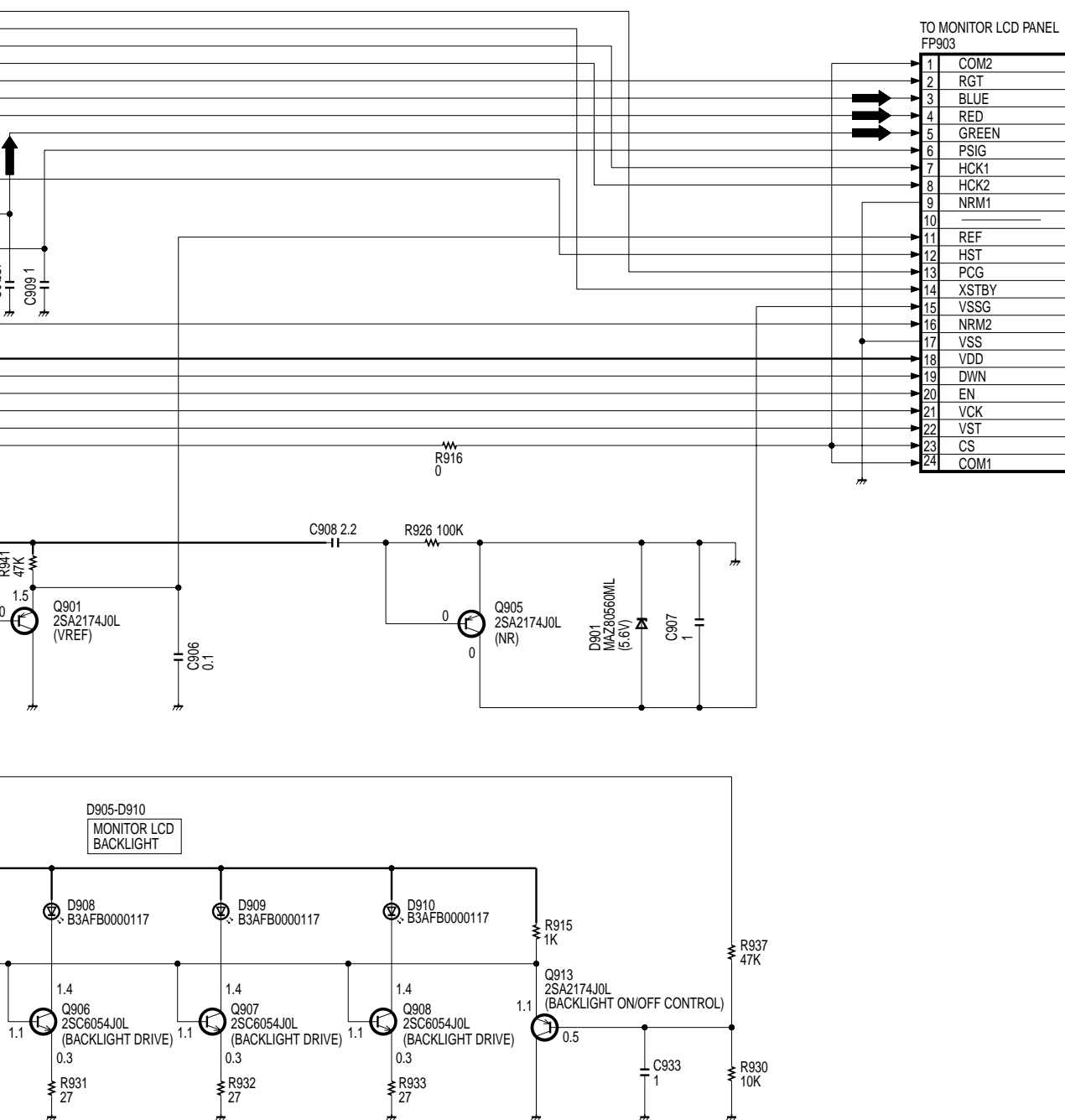
Q904  
2SC6054J0L  
(BACKLIGHT DRIVE)

Q906  
2SC6054J0L  
(BACKLIGHT DRIVE)

D905-D908  
MONITOR  
BACKLIGHT

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH

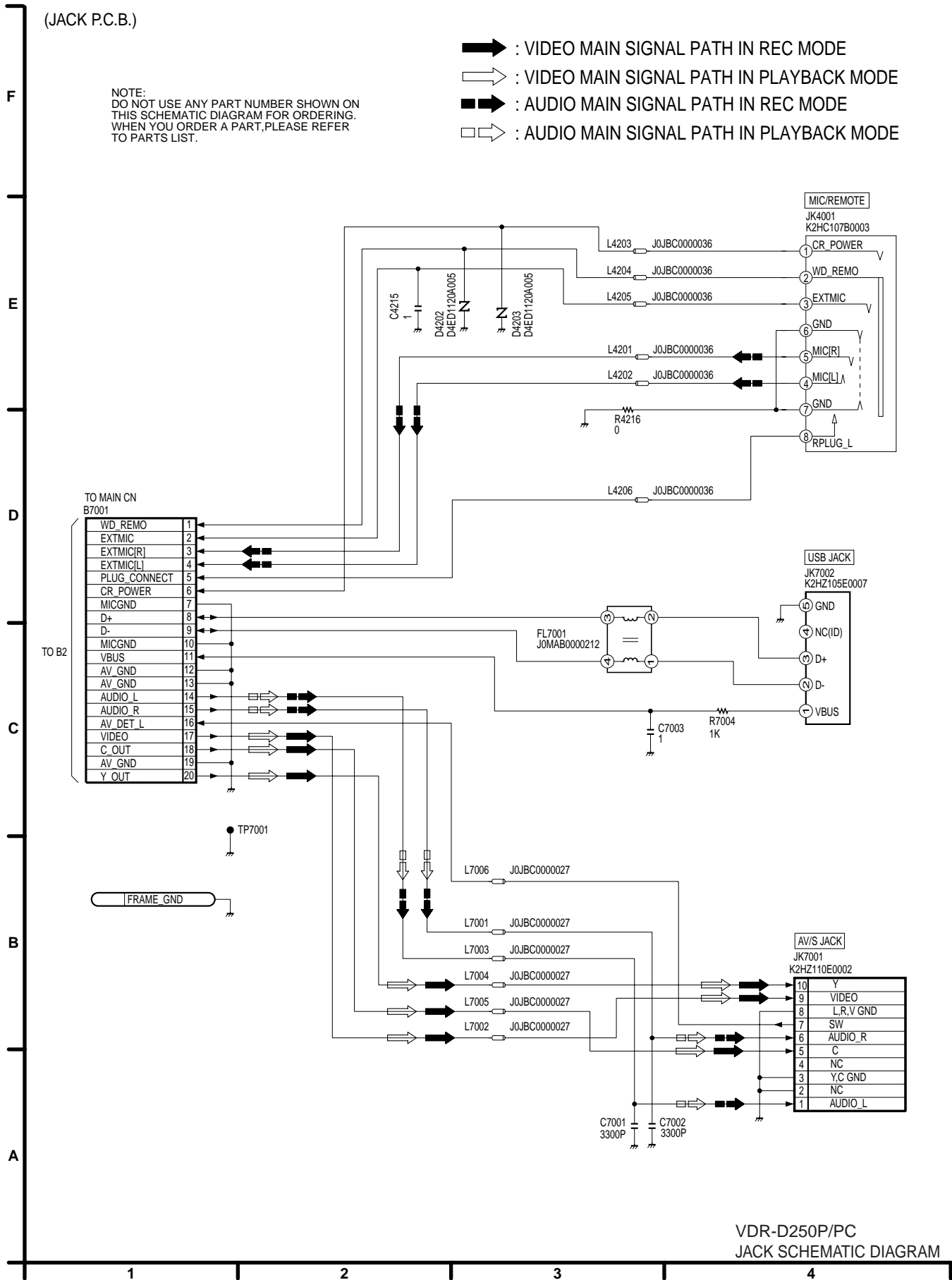


VDR-D250P/PC  
MONITOR SCHEMATIC DIAGRAM



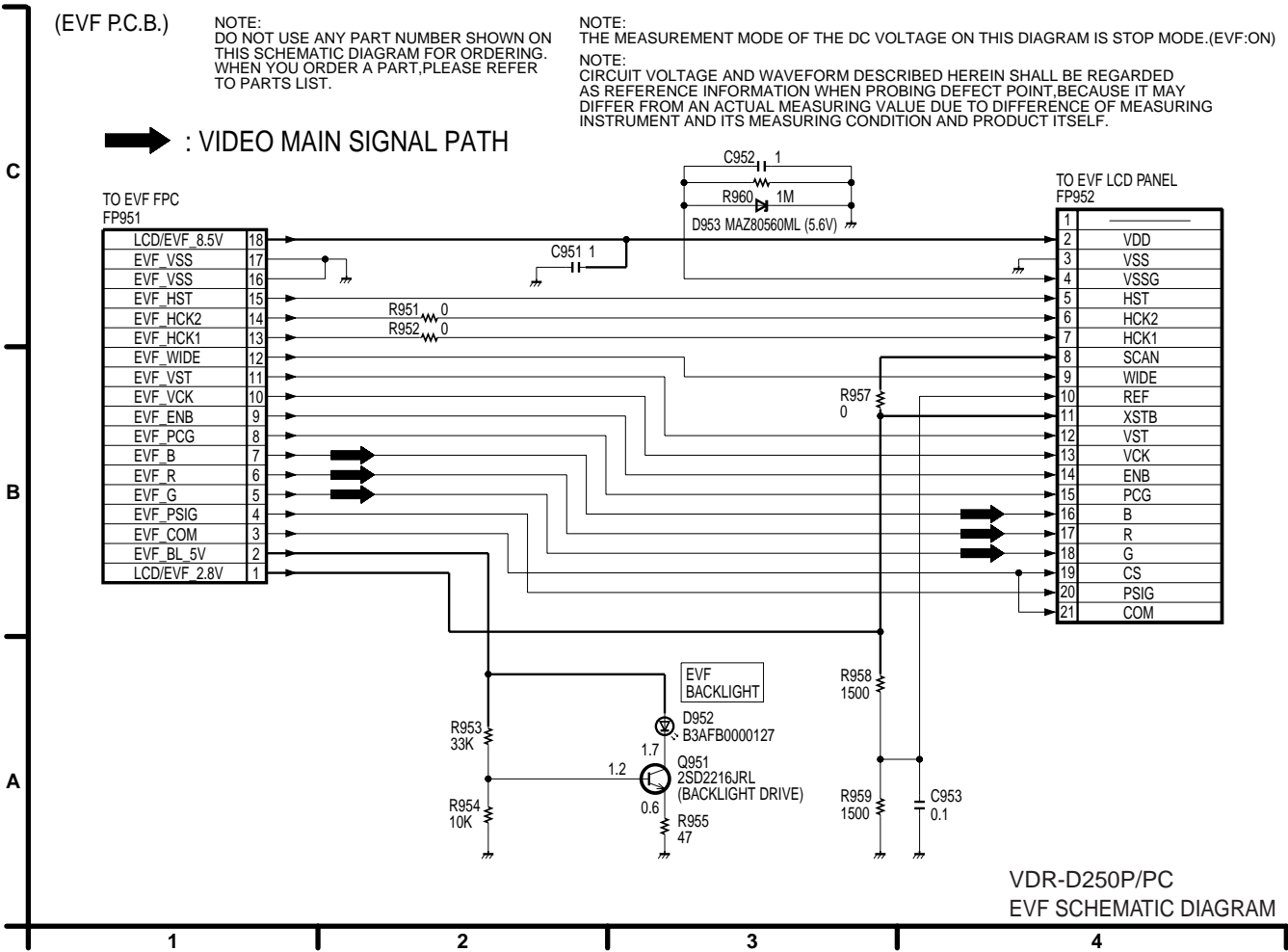
13.5. JACK SCHEMATIC DIAGRAM

13.6.

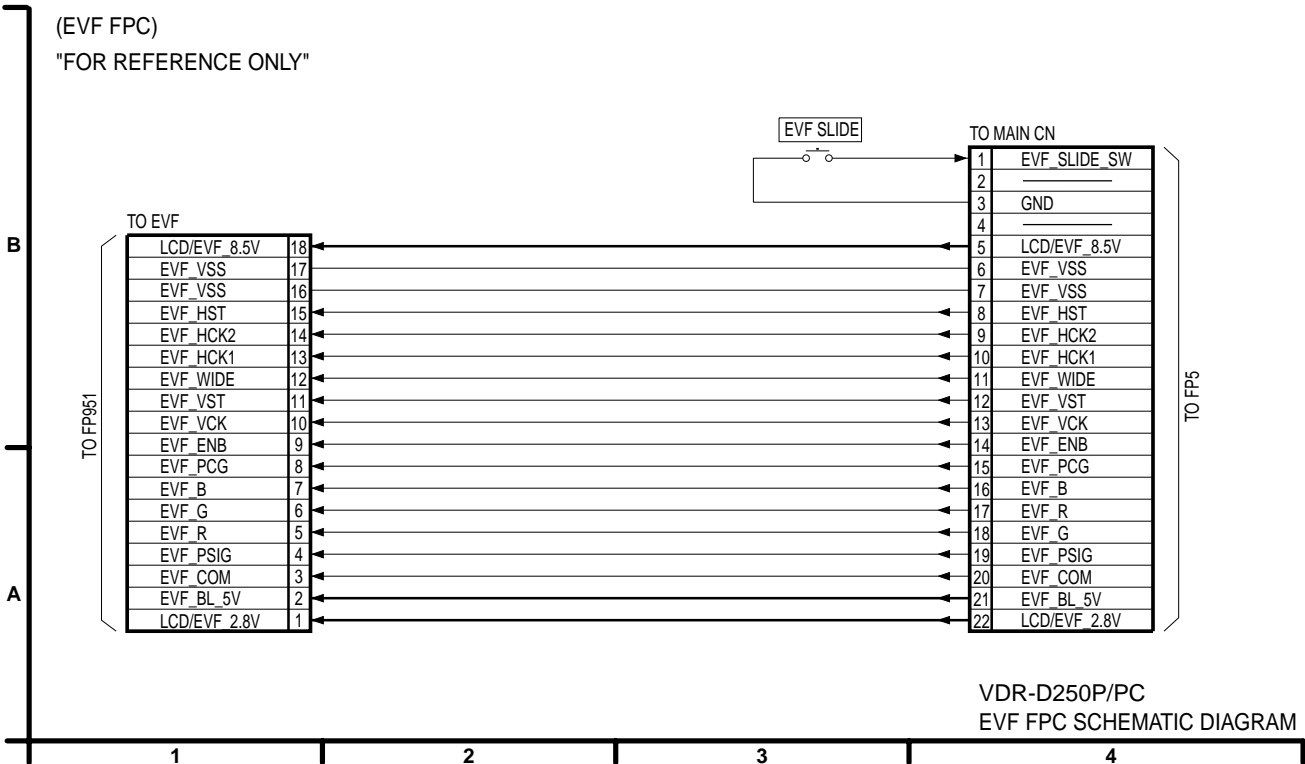


13.7.

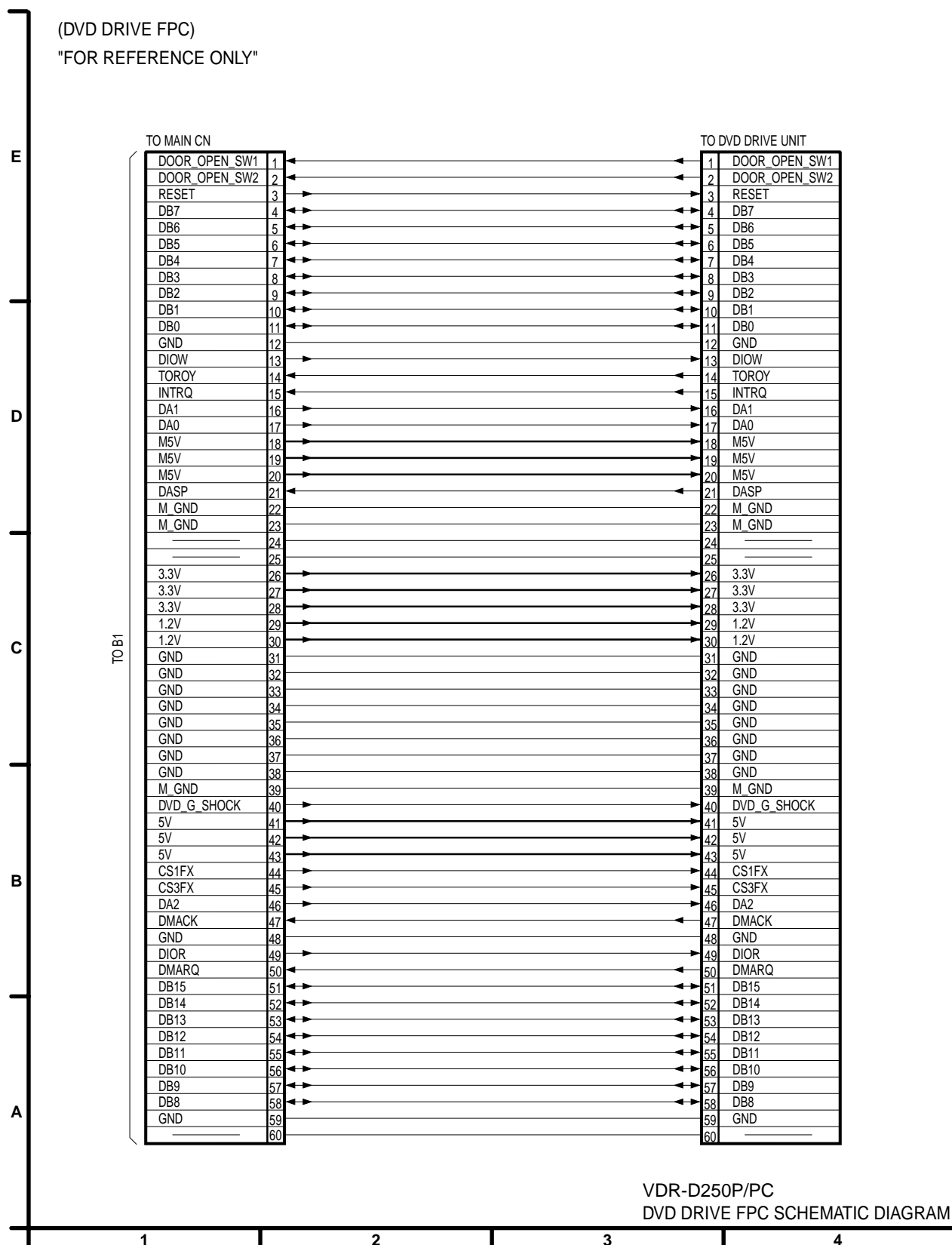
13.6. EVF SCHEMATIC DIAGRAM



13.7. EVF FPC SCHEMATIC DIAGRAM

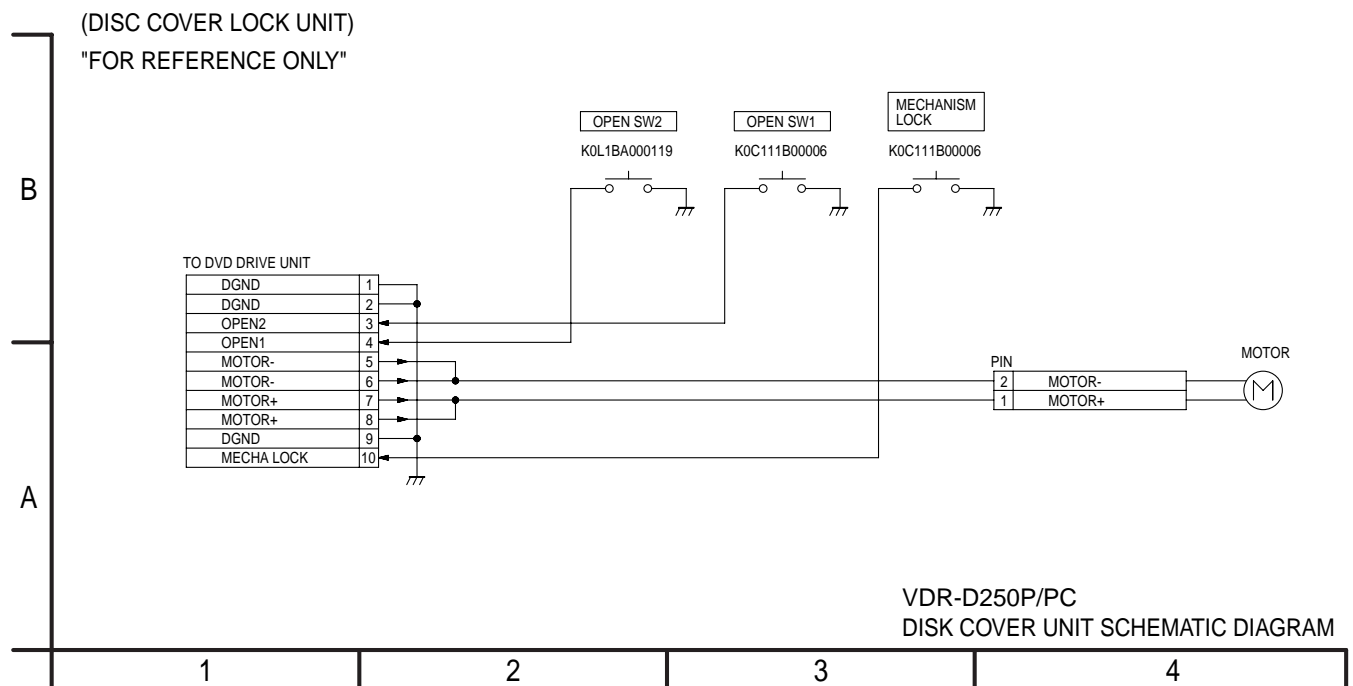


## 13.8. DVD DRIVE FPC SCHEMATIC DIAGRAM

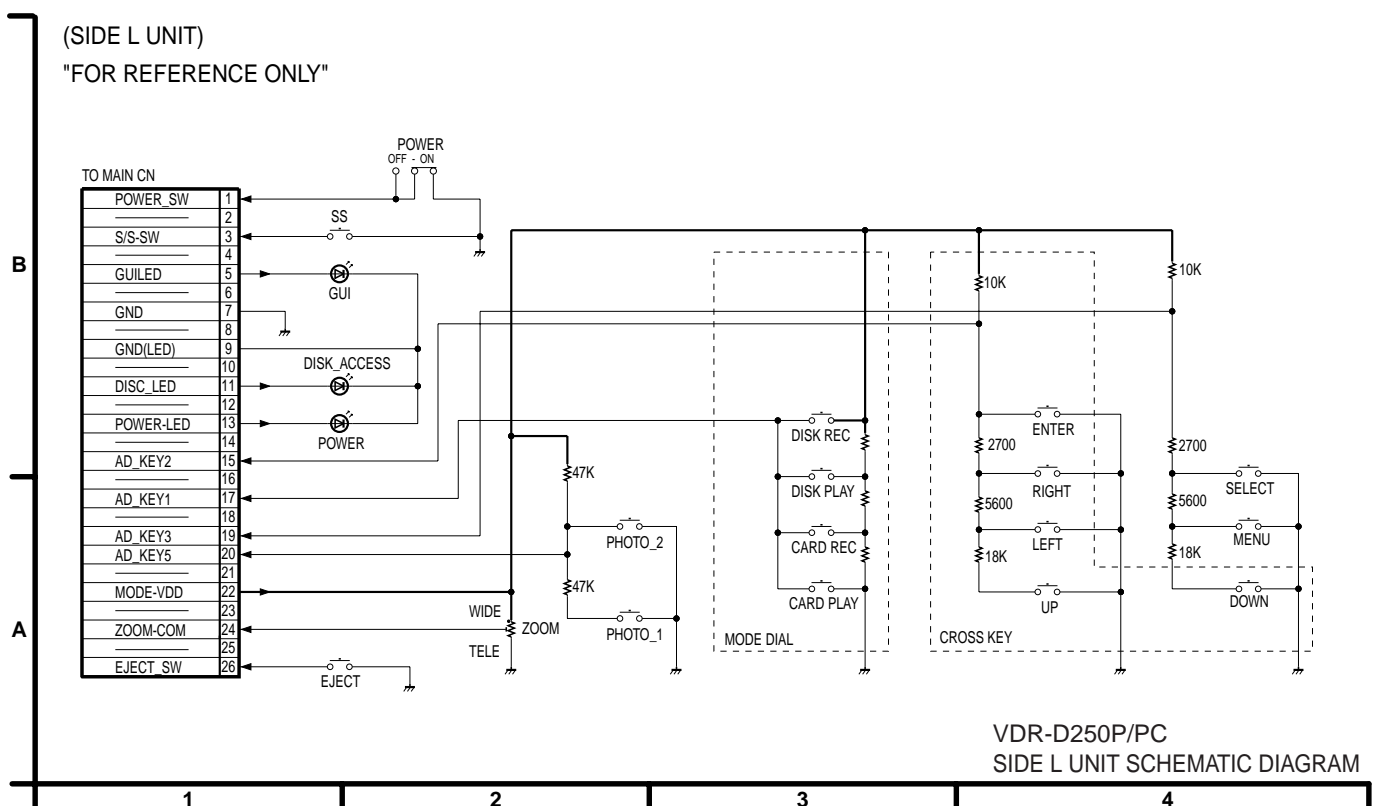




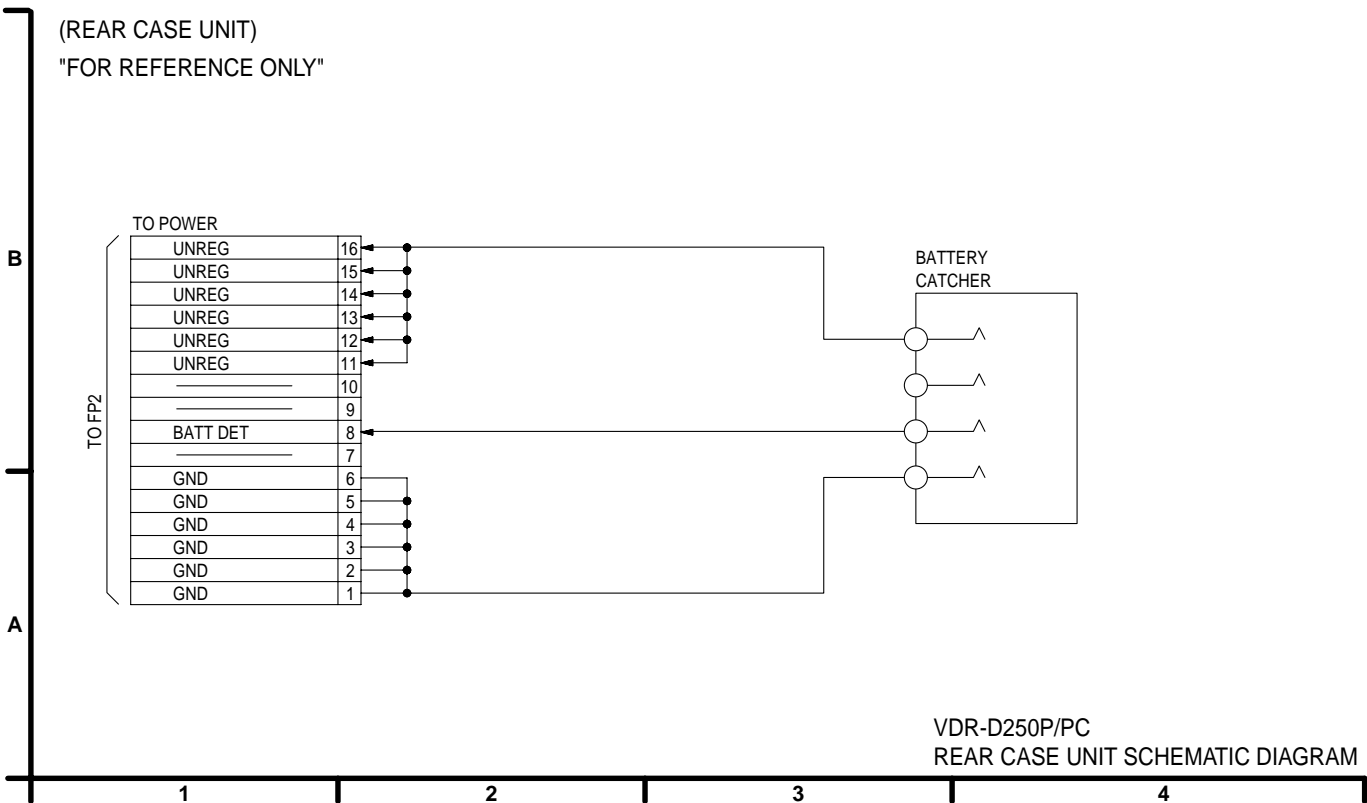
## 13.9. DISK COVER LOCK UNIT SCHEMATIC DIAGRAM



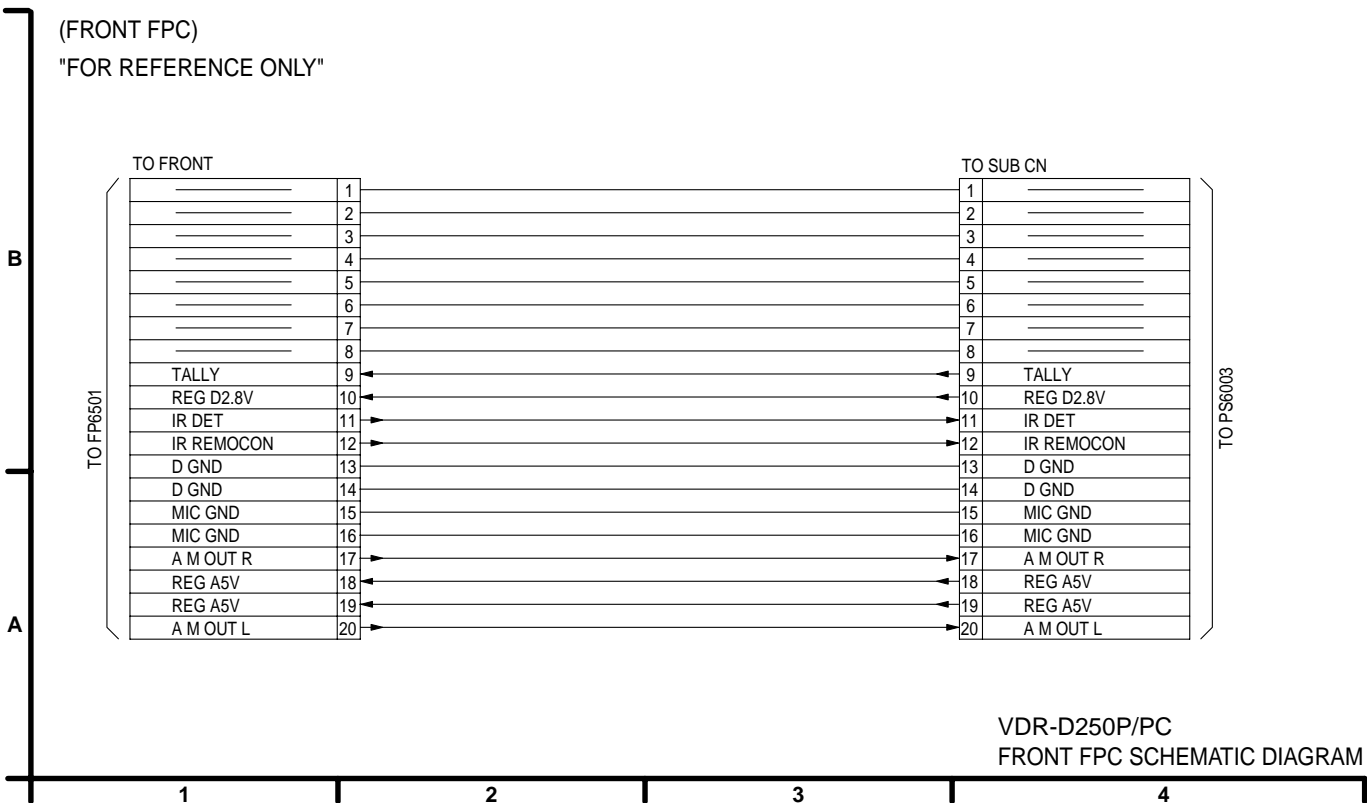
## 13.10. SIDE L UNIT SCHEMATIC DIAGRAM



13.11. REAR CASE UNIT SCHEMATIC DIAGRAM

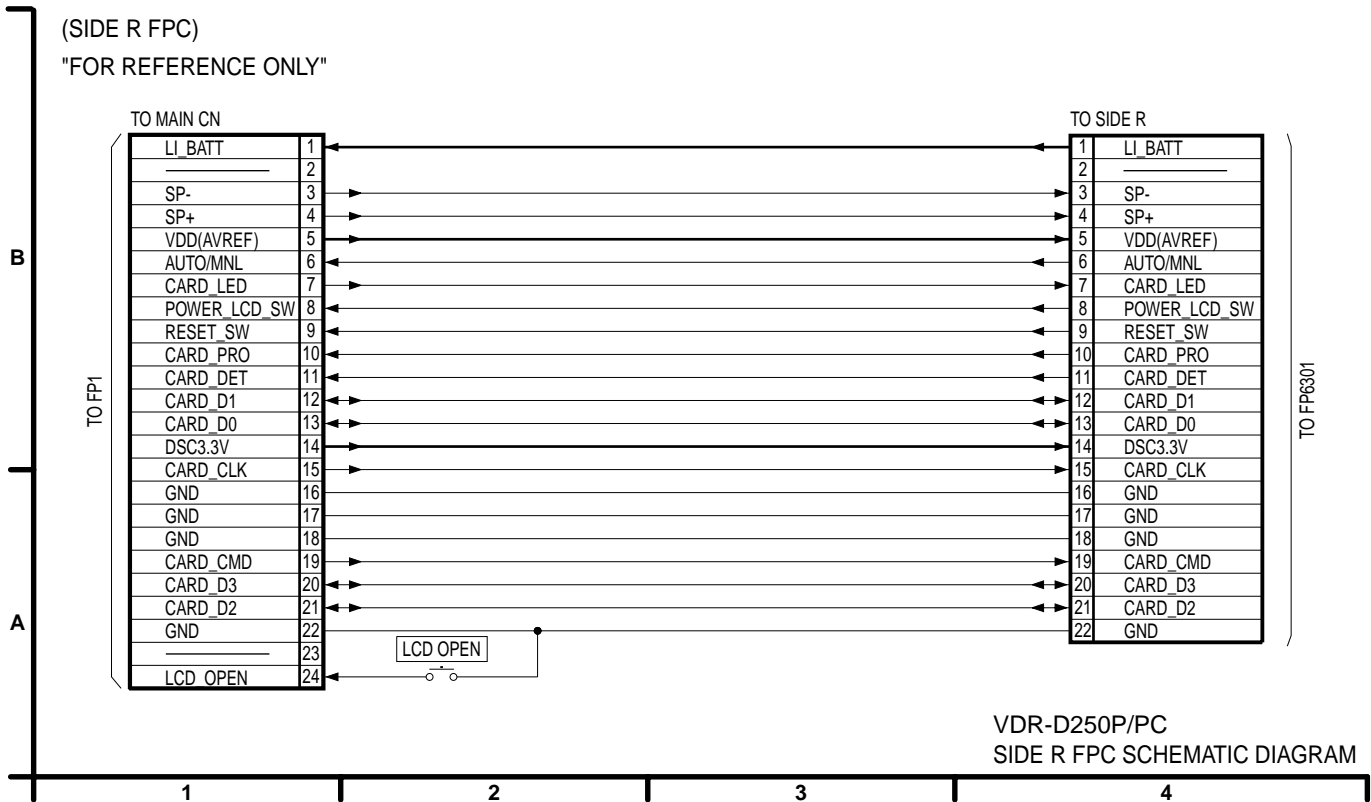


13.12. FRONT FPC SCHEMATIC DIAGRAM

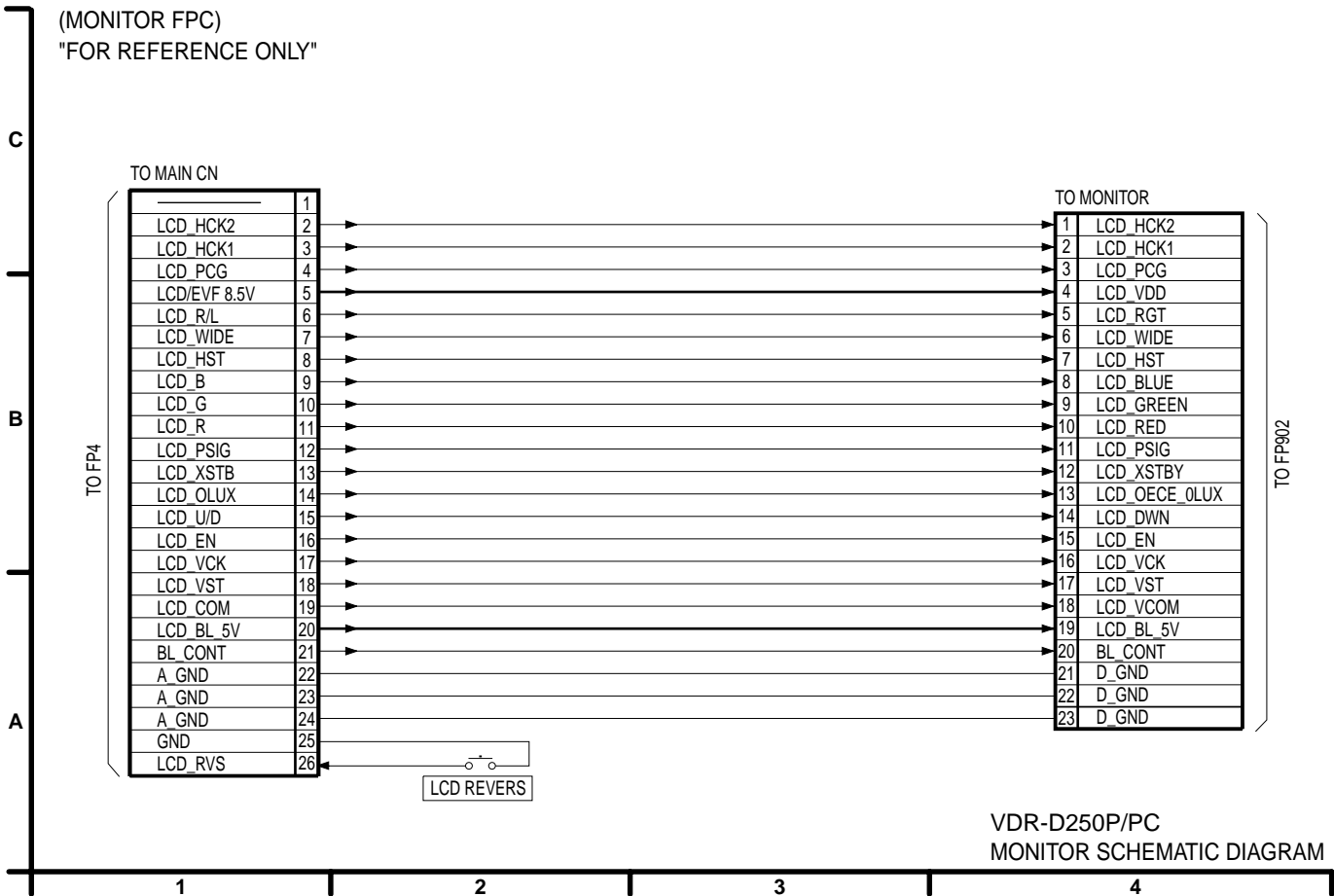




13.13. SIDE R FPC SCHEMATIC DIAGRAM



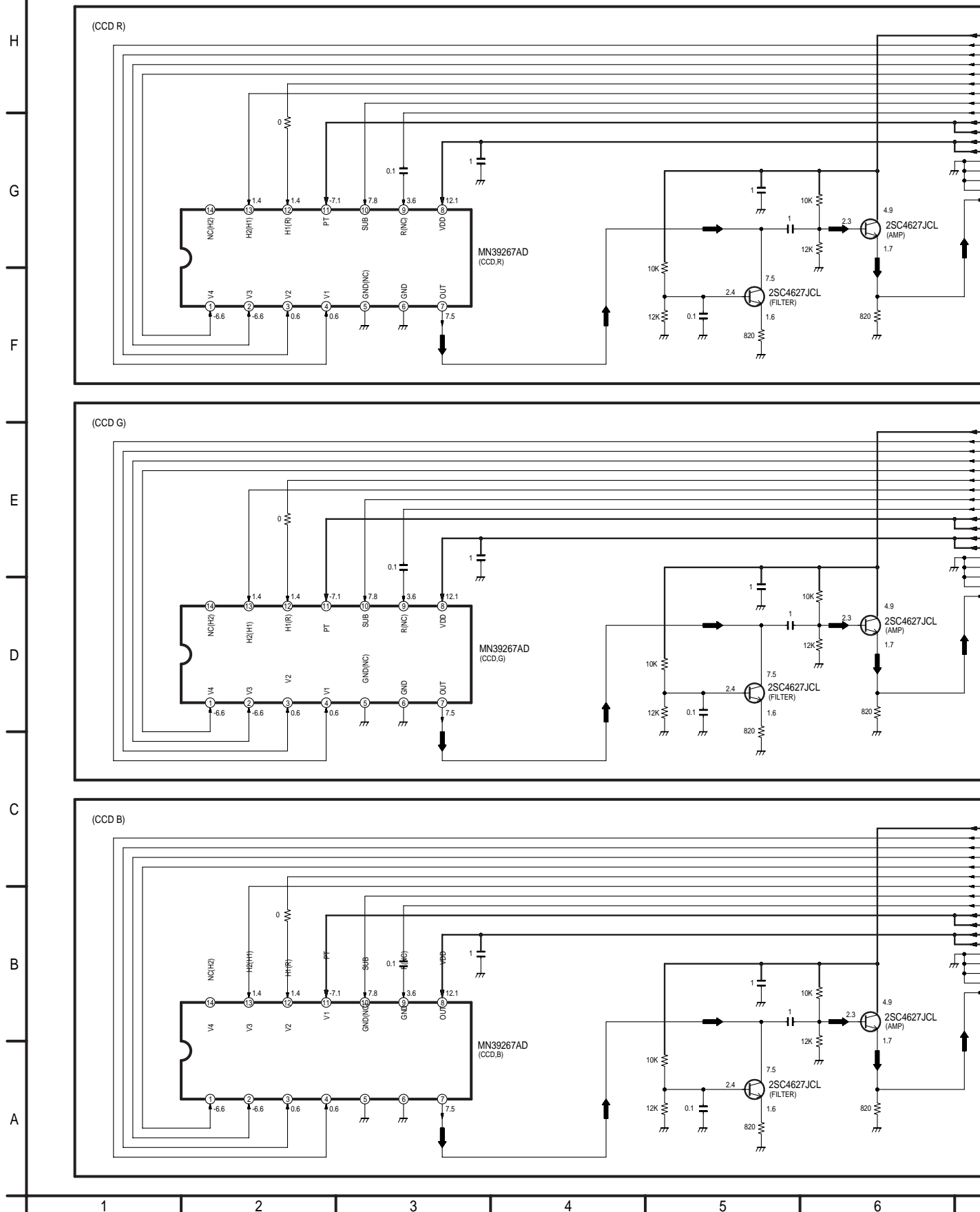
13.14. MONITOR FPC SCHEMATIC DIAGRAM



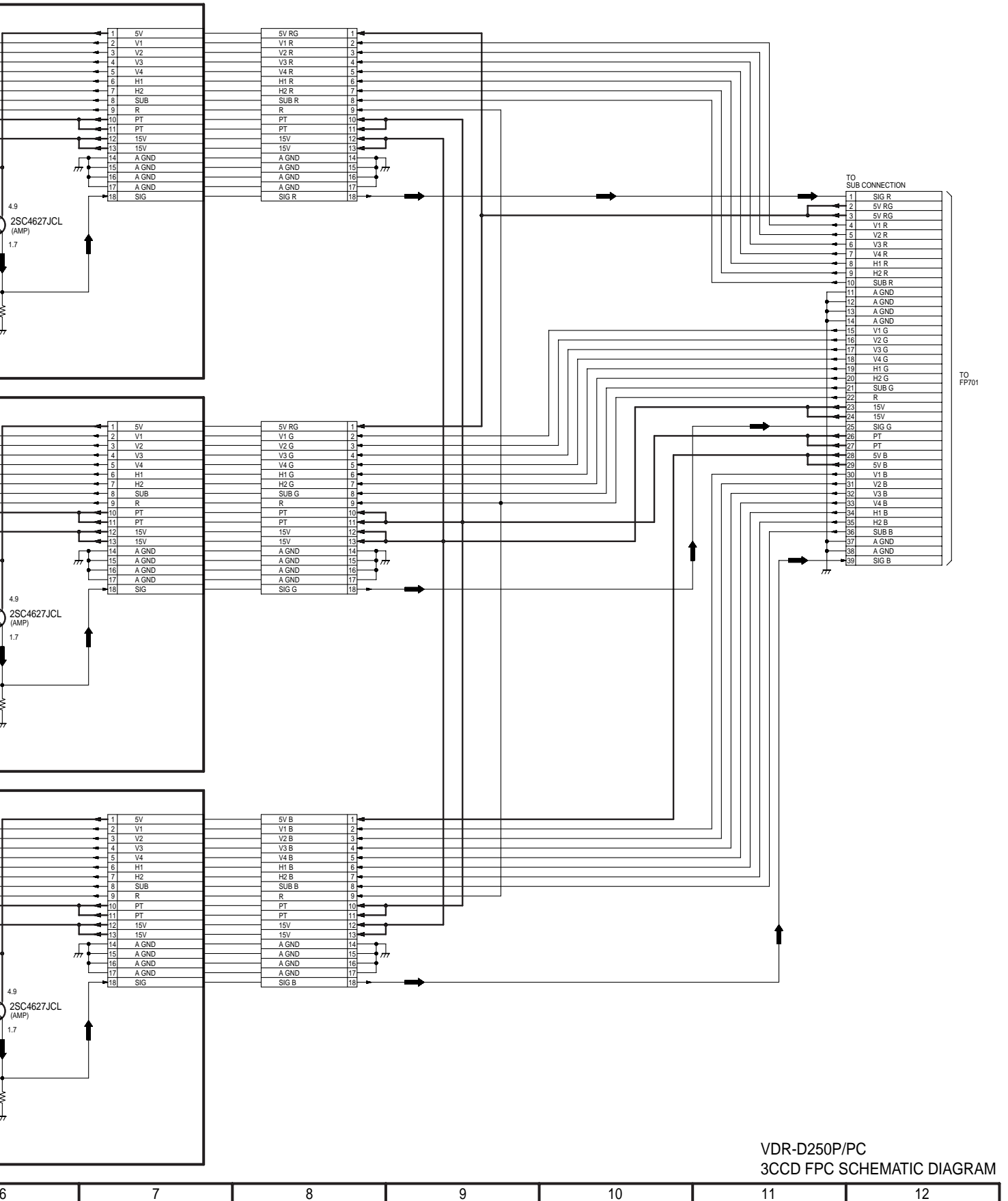
## 13.15. 3CCD FPC SCHEMATIC DIAGRAM

(3CCD FPC)

"FOR REFERENCE ONLY"



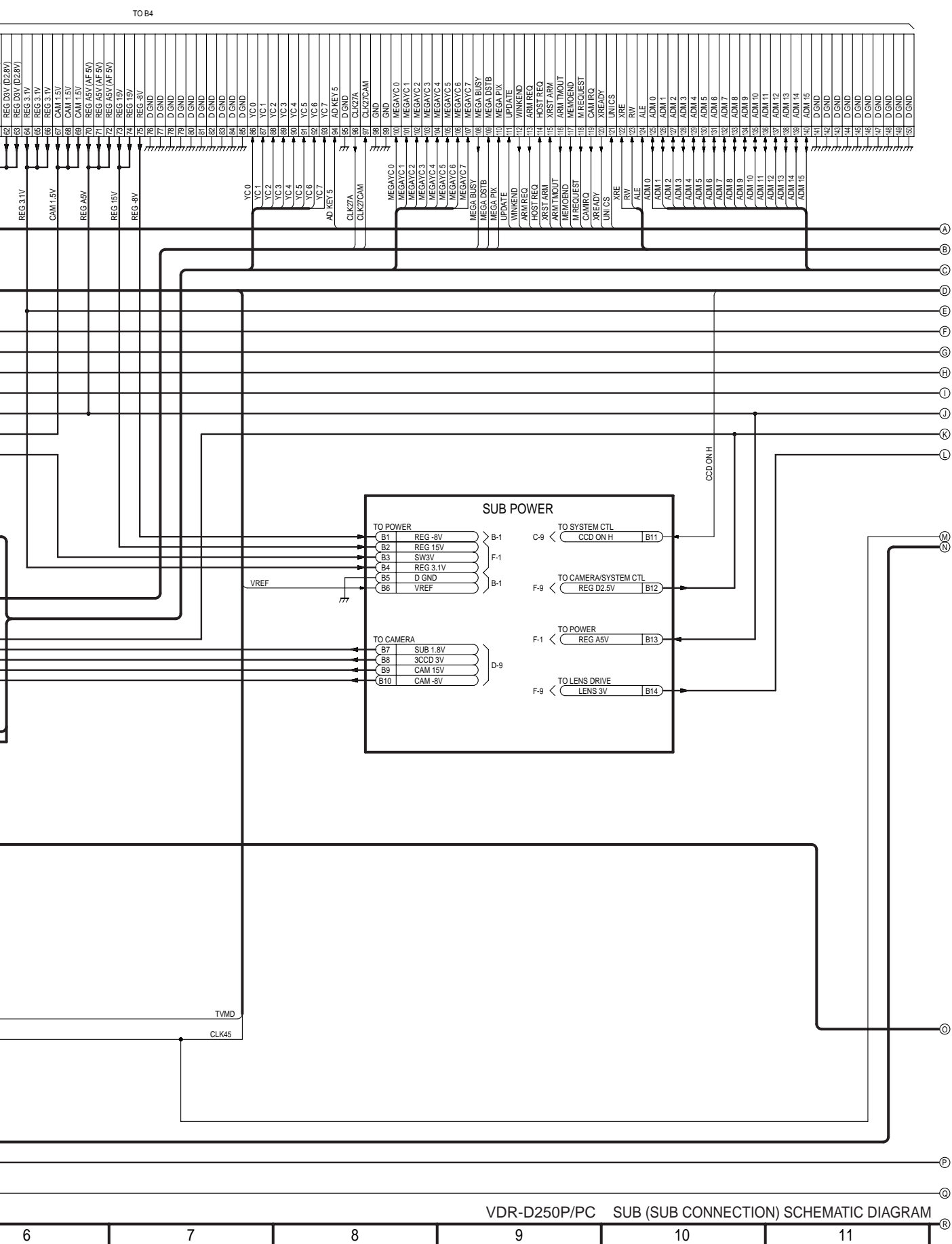
➡:VIDEO MAIN SIGNAL PATH



VDR-D250P/PC  
3CCD FPC SCHEMATIC DIAGRAM

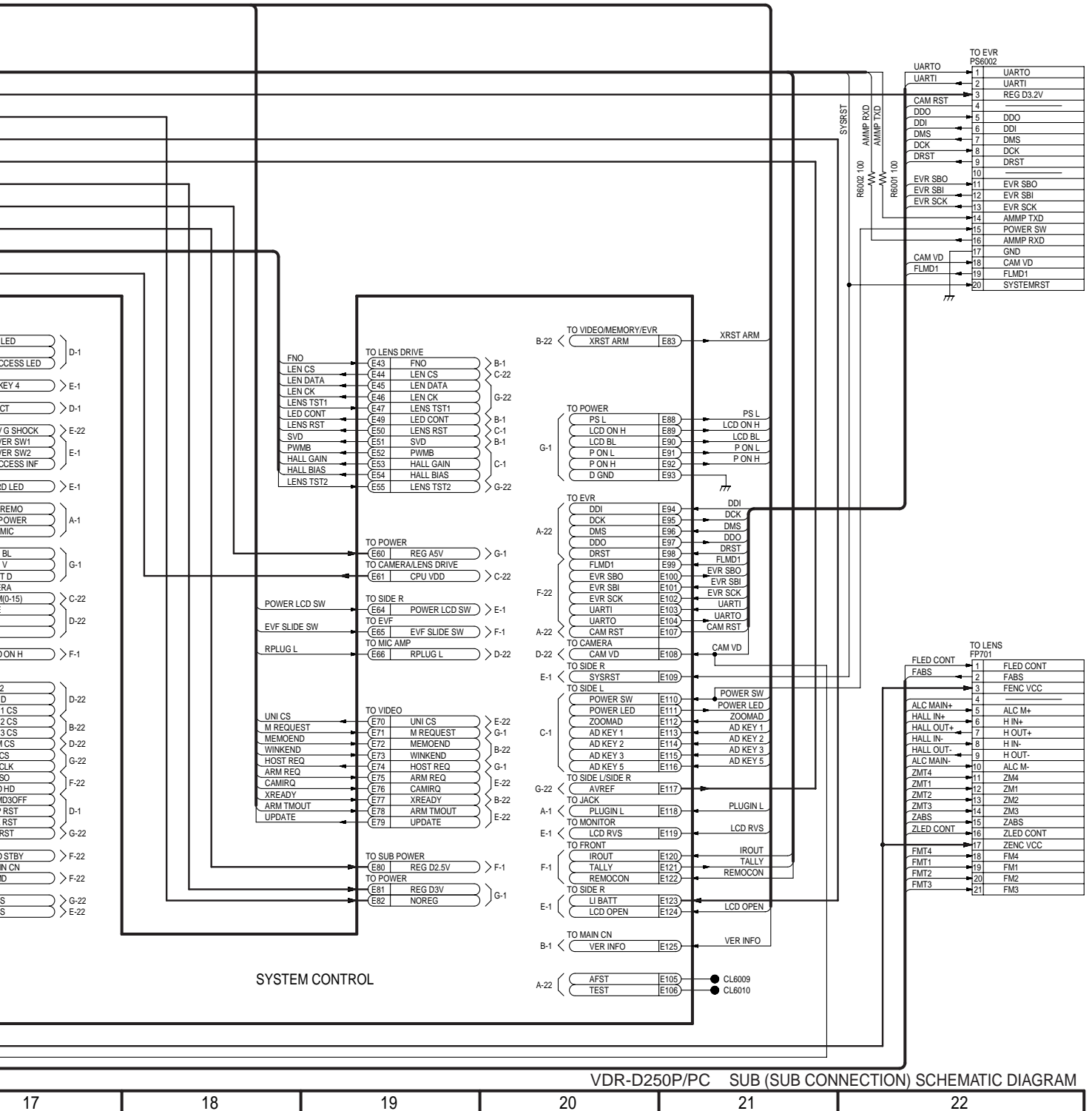




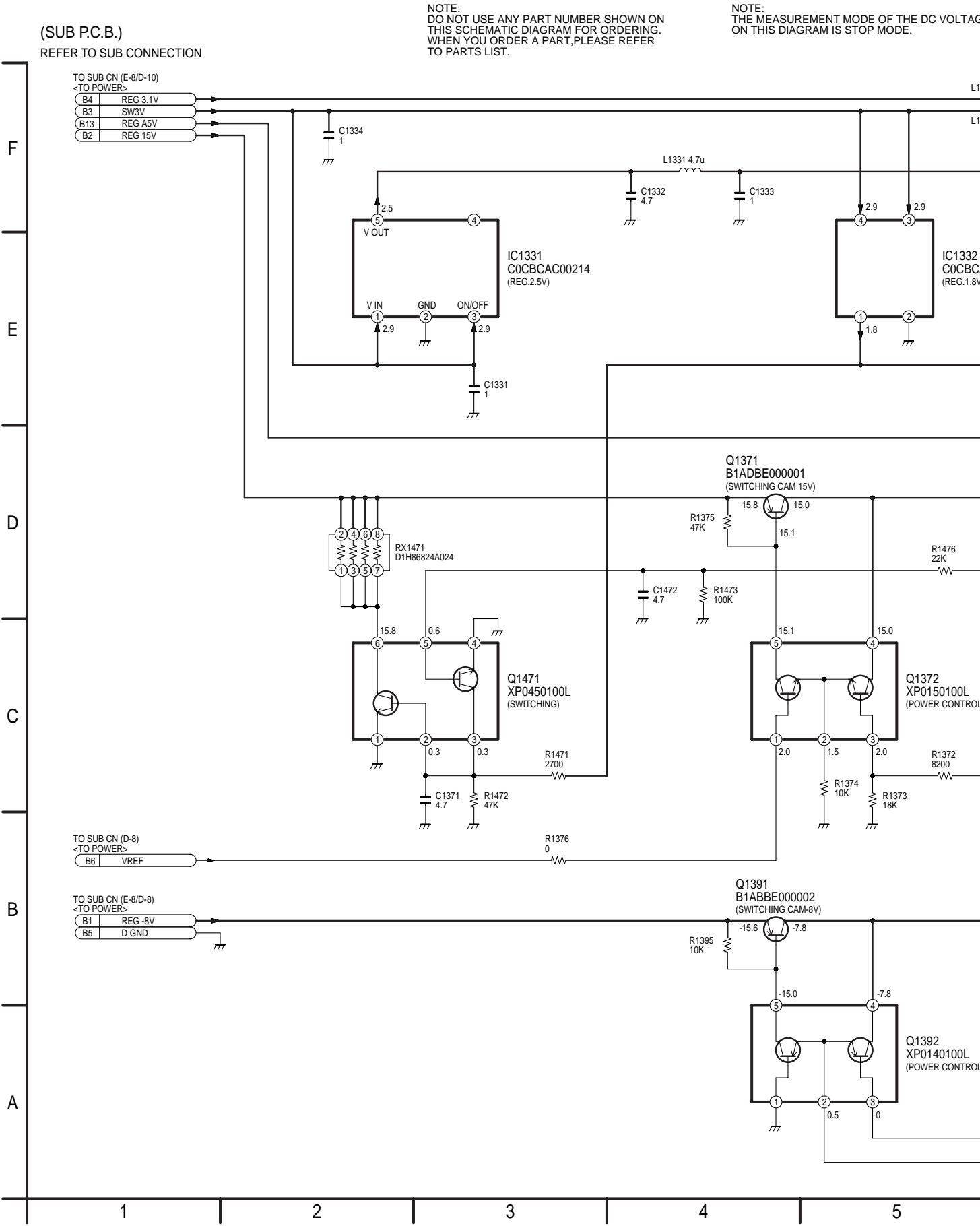




NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

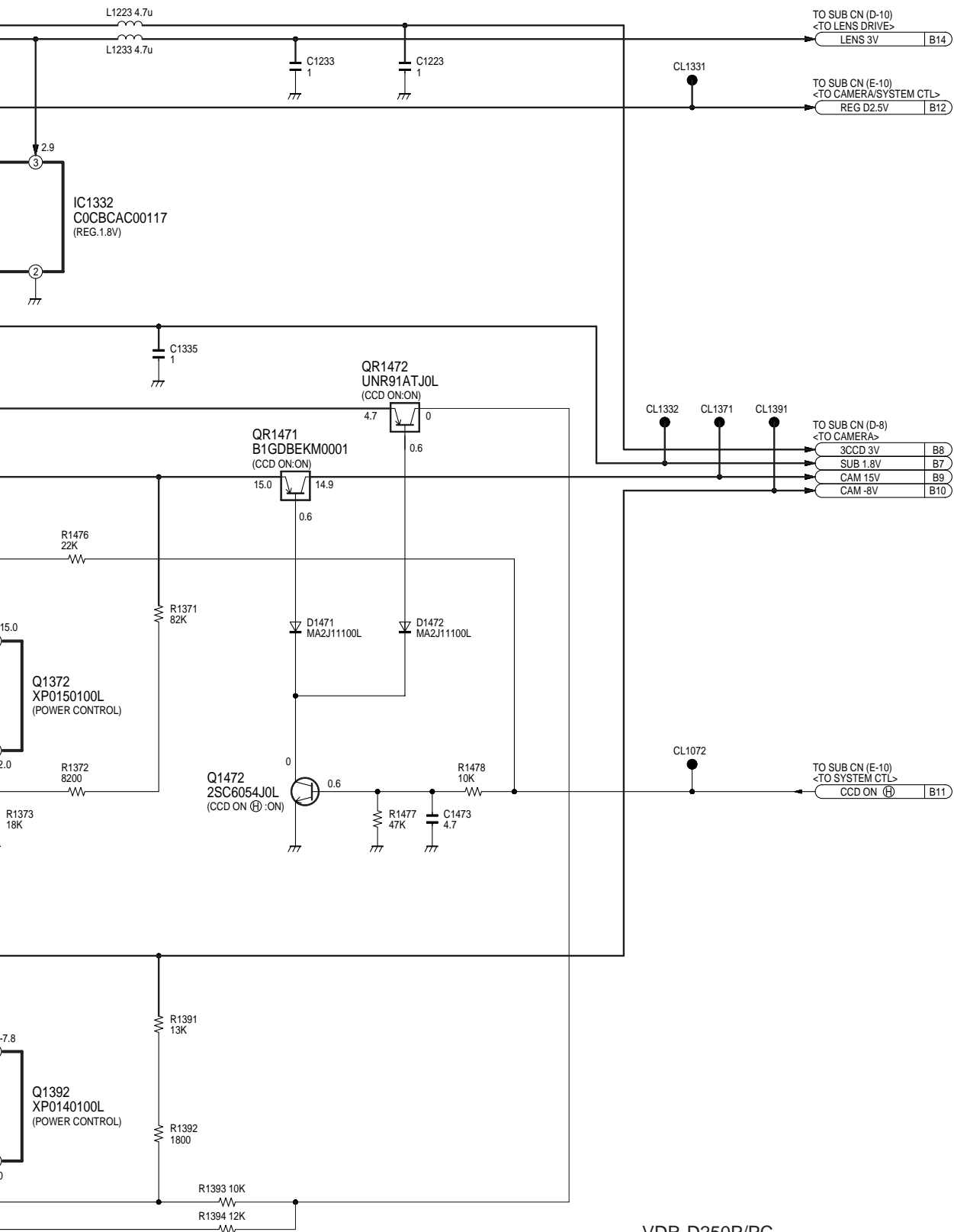


13.17. SUB (SUB POWER) SCHEMATIC DIAGRAM



OF THE DC VOLTAGE  
MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

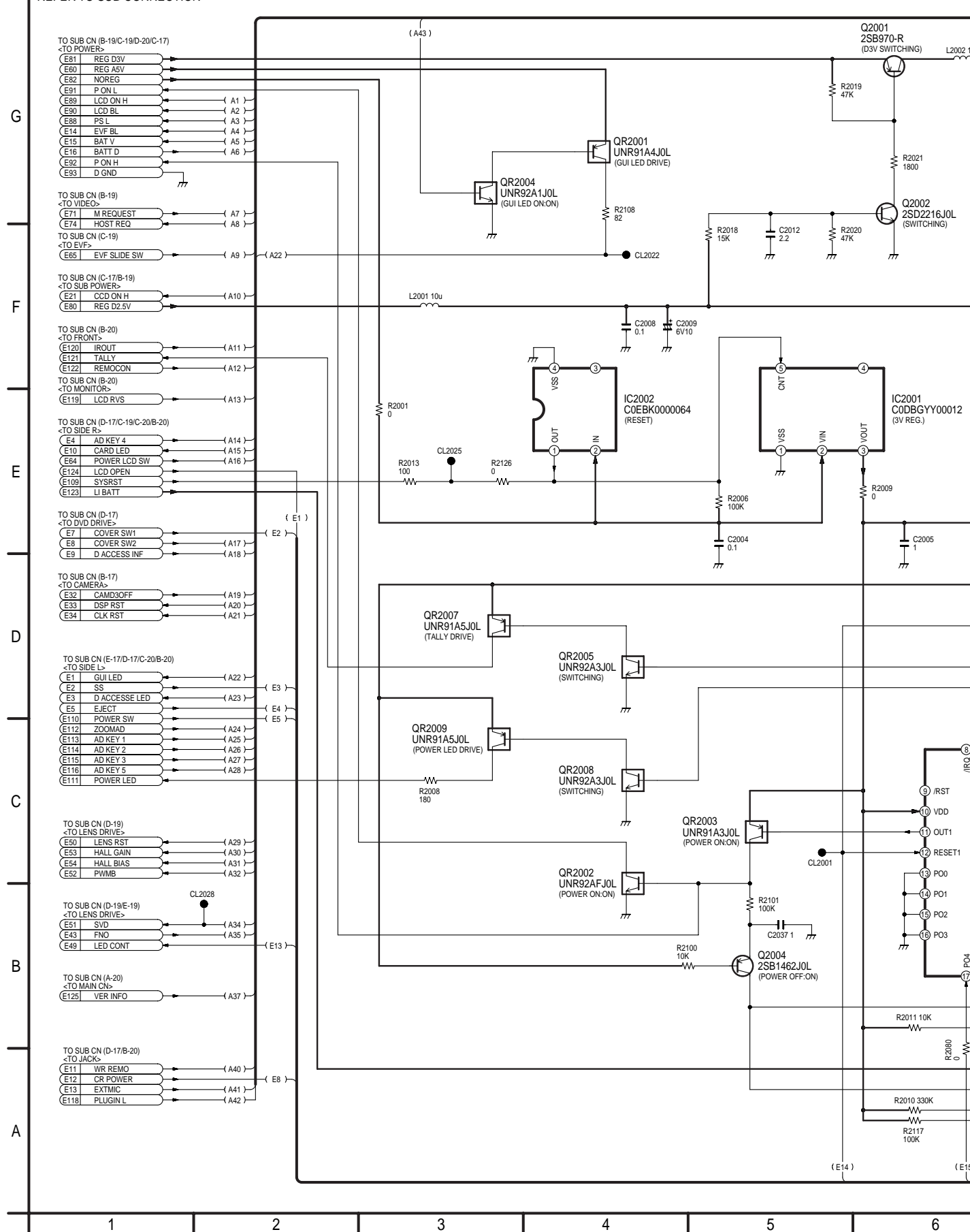


VDR-D250P/PC  
SUB (SUB POWER) SCHEMATIC DIAGRAM

## 13.18. SUB (SYSTEM CONTROL) SCHEMATIC DIAGRAM

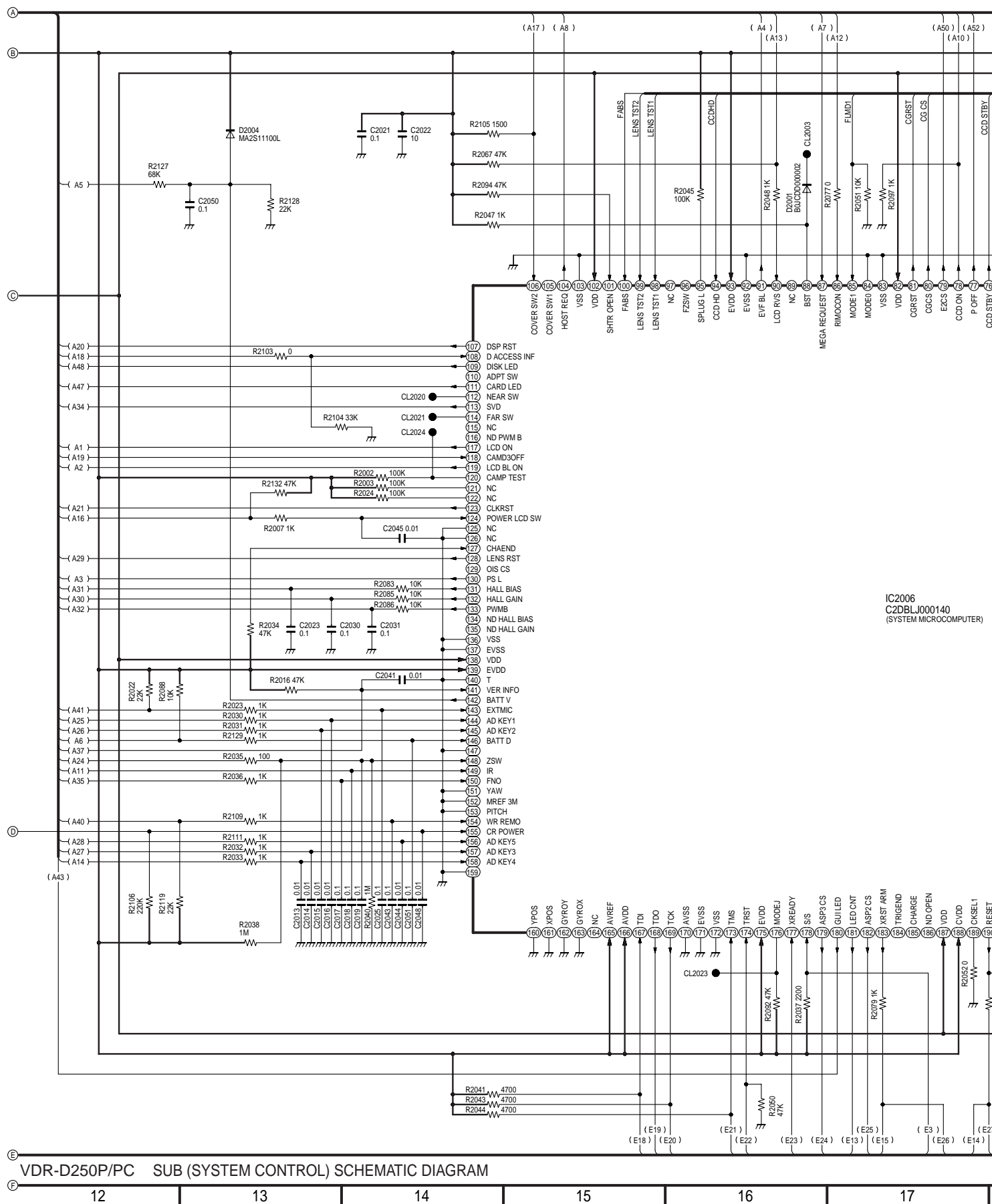
(SUB P.C.B.)

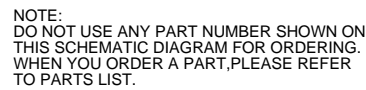
REFER TO SUB CONNECTION











17	18	19	20	21	22
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## 13.18.1. SYSTEM CONTROL DC VOLTAGE CHART

### ICs DC VOLTAGE CHART (SP MODE)

Ref. No.	IC2001						IC2002													
MODE	1	2	3	4	5		1	2	3	4										
STOP	0	8.0	3.1	-	8.0		8.0	8.0	-	0										
PLAY	0	8.0	3.1	-	8.0		8.0	8.0	-	0										
REC	0	8.0	3.1	-	8.0		8.0	8.0	-	0										
Ref. No.	IC2004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1
PLAY	0	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1
REC	1.4	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1
Ref. No.	IC2004													IC2005						
MODE	21	22	23	24	25	26	27	28	29	30	31	32		1	2	3	4			
STOP	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0			
PLAY	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0			
REC	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0			
Ref. No.	IC2006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8
PLAY	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8
REC	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8
Ref. No.	IC2006																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-
PLAY	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-
REC	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-
Ref. No.	IC2006																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0.1	-	0	-	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-
PLAY	0	0.1	-	0	-	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-
REC	0	0.1	-	0	-	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-
Ref. No.	IC2006																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	1.9	2.8	2.8
PLAY	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	1.9	2.8	2.8
REC	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	0	2.8	2.8
Ref. No.	IC2006																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0
PLAY	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0
REC	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0
Ref. No.	IC2006																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0
PLAY	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0
REC	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0
Ref. No.	IC2006																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0
PLAY	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0
REC	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0
Ref. No.	IC2006																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
STOP	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-
PLAY	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-
REC	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-
Ref. No.	IC2006																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
STOP	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	0
PLAY	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	2.8
REC	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	0

Ref. No.	IC2006																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
STOP	0	2.8	1.9	0	0	-	2.5	2.9	0	2.8	1.4	1.3	0	0	2.5	0	-	2.8	2.8	2.8
PLAY	0	2.8	1.9	0	0	-	2.5	2.9	0	2.8	1.4	1.3	0	0	2.5	0	-	2.8	2.8	2.8
REC	0	2.8	1.9	0	0	-	2.5	2.9	0	2.8	1.4	1.3	0	0	2.5	0	-	2.8	2.8	2.8
Ref. No.	IC2006										IC2007									
MODE	201	202	203	204	205	206	207	208	209		1	2	3	4	5	6	7	8		
STOP	0	-	0	-	2.8	0	0	0	-		2.8	2.8	0	0	2.8	2.8	2.8	2.9		
PLAY	0	-	0	-	2.8	0	0	0	-		2.8	2.8	0	0	2.8	2.8	2.8	2.9		
REC	0	-	0	-	2.8	0	0	0	-		2.8	2.8	0	0	2.8	2.8	2.8	2.9		

## TRs DC VOLTAGE CHART (SP MODE)

Ref. No.	Q2001			Q2002			Q2003			Q2004			Q2005		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	2.9	2.9	2.2	0	0	0.8	3.1	0	3.1	3.0	0	-	3.0	2.9	2.5
PLAY	2.9	2.9	2.2	0	0	0.8	3.1	0	3.1	3.0	0	-	3.0	2.9	2.5
REC	2.9	2.9	2.2	0	0	0.8	3.1	0	3.1	3.0	0	-	3.0	2.9	2.5
Ref. No.	Q2006			Q2007			Q2008			Q2009			Q2010		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	3.1	0	3.1												
PLAY	3.1	0	3.1												
REC	3.1	0	3.1												
Ref. No.	QR2001			QR2002			QR2003			QR2004			QR2005		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	4.7	0	4.7	0	0	3.0	3.1	3.1	0	0	4.7	0	0	2.8	0
PLAY	4.7	0	4.7	0	0	3.0	3.1	3.1	0	0	4.7	0	0	2.8	0
REC	4.7	0	4.7	0	0	3.0	3.1	3.1	0	0	4.7	0	0	1.2	14
Ref. No.	QR2006			QR2007			QR2008			QR2009			QR2010		
MODE	1	2	3	4	5	6	E	C	B	E	C	B	E	C	B
STOP	2.9	2.8	0	2.9	2.8	0	2.9	2.0	2.8	0	1.2	1.4	2.9	2.0	1.2
PLAY	2.9	2.8	0	2.9	2.8	0	2.9	2.0	2.8	0	1.2	1.4	2.9	2.0	1.2
REC	2.9	2.8	0	2.9	2.8	0	2.9	2.0	1.2	0	1.2	1.4	2.9	2.0	1.2
Ref. No.	QR2010			QR2011			QR2012			QR2013			QR2014		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	2.8	0												
PLAY	0	2.8	0												
REC	0	2.8	0												

### NOTE:

CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

## 13.18.2. SYSTEM CONTROL I/O TABLE

### IC2006 : SYSTEM MICROCOMPUTER

Pin No.	Signal Name	I/O	Explanation
1	NC	-	Not Used
2	ADM0	I/O	Address Data
3	ADM1	I/O	Address Data
4	ADM2	I/O	Address Data
5	ADM3	I/O	Address Data
6	ADM4	I/O	Address Data
7	ADM5	I/O	Address Data
8	ADM6	I/O	Address Data
9	ADM7	I/O	Address Data
10	ADM8	I/O	Address Data
11	ADM9	I/O	Address Data
12	ADM10	I/O	Address Data
13	ADM11	I/O	Address Data
14	ADM12	I/O	Address Data
15	ADM13	I/O	Address Data
16	ADM14	I/O	Address Data
17	ADM15	I/O	Address Data
18	VDD	I	Voltage
19	E VDD	I	Voltage
20	UNI CS	O	AMMP Chip Select
21	NC	-	Not Used
22	CAM DSP CS	O	Camera Chip Select
23	LENS DAC CS	O	Lens Chip Select
24	APS1 CS	O	APS1 Chip Select
25	E2 WP	O	EEPROM Write Protect
26	LSTBY	-	Not Used
27	E2 HOLD	O	EEPROM Hold
28	E VDD	I	Voltage
29	VSS	-	GND
30	E VSS	-	GND
31	VDD	I	Voltage
32	WE (L)	O	Write Enable ON/OFF
33	RPLUG (L)	I	Universal Remote In:Low
34	DRV G SHOCK	O	Drive Unit G Shock Detect
35	VDD EMG	-	Not Used
36	XRE	O	Write Enable ON/OFF
37	Z ABS	I	Zoom Encoder
38	DAS	O	Address Strobe
39	UPDATE	O	Update Control
40	SENS SW	-	Not Used
41	ARM TM OUT	I	AMMP PLL Out of Control Detect
42	MVD	O	VD to DSP LSI
43	BEND	I	Data Block End Request
44	CAM IRQ	I	Camera Interrupt
45	V1 V2	I	ACT Detect End
46	NC	-	Not Used
47	NC	-	Not Used
48	ARM REQ	I	ARM Communication Request
49	NC	-	Not Used
50	P/N	I	NTSC/PAL Select
51	USA INFO	I	Area Detection
52	RTC DO	O	RTC Serial Data Output
53	RTC DI	I	RTC Serial Data Input
54	RTC CLK	I	RTC Serial Clock
55	OIS DATA	-	Not Used
56	NC	-	Not Used
57	OIS SCK	-	Not Used
58	SHTR P	-	Not Used
59	SHTR M	-	Not Used
60	NC	-	Not Used
61	UARTO	O	PC Data Output

Pin No.	Signal Name	I/O	Explanation
62	UARTI	I	PC Data Input
63	NC	-	Not Used
64	NC	-	Not Used
65	NC	-	Not Used
66	CG ASP DAT	O	Character Generation Serial Data
67	NC	-	Not Used
68	CG ASP SCK	O	Character Generation Clock
69	EVR SBO	O	EVR Serial Data Output
70	SVR SBI	I	EVR Serial Data Input
71	SVR SCK	I	EVR Serial Clock
72	LENS DATA	O	Lens Serial Data Output
73	PLUGIN (L)	I	AV JACK Connection:Low
74	LENS SCLK	O	Lens Serial Clock
75	RTC CS	I	RTC Chip Select
76	CCD STBY	O	CCD Standby
77	P OFF	O	Power OFF Request
78	CCD ON	O	CCD Power Control
79	E2 CS	O	EEPROM Chip Select
80	CG CS	O	Character Generation Chip Select
81	CG RST	O	Character Generation Reset
82	VDD	I	Voltage
83	VSS	-	GND
84	MODE0	I	Mode Select 1
85	MODE1	I	Mode Select 2
86	REMOCON	I	IR Remote Control Signal Input
87	MEGA REQUEST	I	Mega Pixel Request
88	BST	I	Boundary Scan Test SW
89	NC	-	NC
90	LCD RVS	I	LCD Reverse Detect
91	EVF BL	O	EVF Backlight Control
92	E VSS	-	GND
93	E VDD	I	Voltage
94	FLSDLY	I	Flashing Delay
95	SPLUG (L)	-	Not Used
96	FZSW	-	Not Used
97	NC	-	Not Used
98	LENS TST 1	I	Lens Test 1
99	LENS TST 2	I	Lens Test 2
100	FABS	I	Focus Encoder
101	SHTR OPEN	-	Not Used
102	VDD	I	Voltage
103	VSS	-	GND
104	HOST REQ	O	Microcomputer Communication Request
105	COVER SW 1	-	Not Used
106	COVER SW 2	I	Disk Cover Open/Close Detection
107	DSP RST	O	DSP Reset
108	D ACCESS INF	I	Disk Access Information
109	DISK LED	O	Disk Access LED Drive
110	ADPT SW	-	Not Used
111	CARD LED	O	Card Access LED Drive
112	NEAR SW	-	Not Used
113	SVD	O	Lens Driver VD
114	FAR SW	-	Not Used
115	NC	-	Not Used
116	ND PWM D	-	Not Used
117	LCD ON (H)	O	Monitor LCD Power Control
118	CAMD3OFF	I	Camera Power Control
119	LCD BL ON	O	Monitor LCD Backlight Control
120	CAMP TEST	-	Test Terminal
121	NC	-	Not Used
122	NC	-	Not Used

Pin No.	123
	124
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Pin No.	Signal Name	I/O	Explanation
123	CLK RST	O	Camera Reset
124	POWER LCD SW	I	LCD Power Switch
125	NC	-	Not Used
126	NC	-	Not Used
127	CHA END	-	Not Used
128	LENS RST	I	Lens Reset
129	OIS CS	-	Not Used
130	PS (L)	O	Quick Start Control
131	HOLE BIAS	O	HOLE BIAS
132	HOLE GAIN	O	HOLE GAIN
133	PWMD	O	IRIS PWM BIAS
134	ND HOLE BIAS	-	Not Used
135	ND HOLE GAIN	-	Not Used
136	VSS	-	GND
137	E VSS	-	GND
138	VDD	I	Voltage
139	E VDD	I	Voltage
140	T	-	GND
141	VER INFO	I	PCB Version Detect
142	BATT V	I	Battery Voltage Detect
143	EXT MIC	I	EXT MIC JACK Connection Detect
144	AD KEY 1	I	Analog Key Input 1
145	AD KEY 2	I	Analog Key Input 2
146	BATT D	I	Battery D Terminal Input
147	GND	-	GND
148	Z SW	I	Zoom SW Voltage
149	IR	I	IR Sensor
150	FNO	I	F Value
151	YAW	-	Not Used (GND)
152	M REF 3M	-	Not Used (GND)
153	PITCH	-	Not Used (GND)
154	WR REMO	I	Universal Remote Signal Input
155	CR POWER	I	AWP Connection Detect
156	AD KEY 5	I	Analog Key Input 5
157	AD KEY 3	I	Analog Key Input 3
158	AD KEY 4	I	Analog Key Input 4
159	GND	-	GND
160	Y POS	-	Not Used (GND)
161	X POS	-	Not Used (GND)
162	GYRO Y	-	Not Used (GND)
163	GYRO X	-	Not Used (GND)
164	NC	-	Not Used
165	A VREF	I	Reference Voltage
166	A VDD	I	Voltage

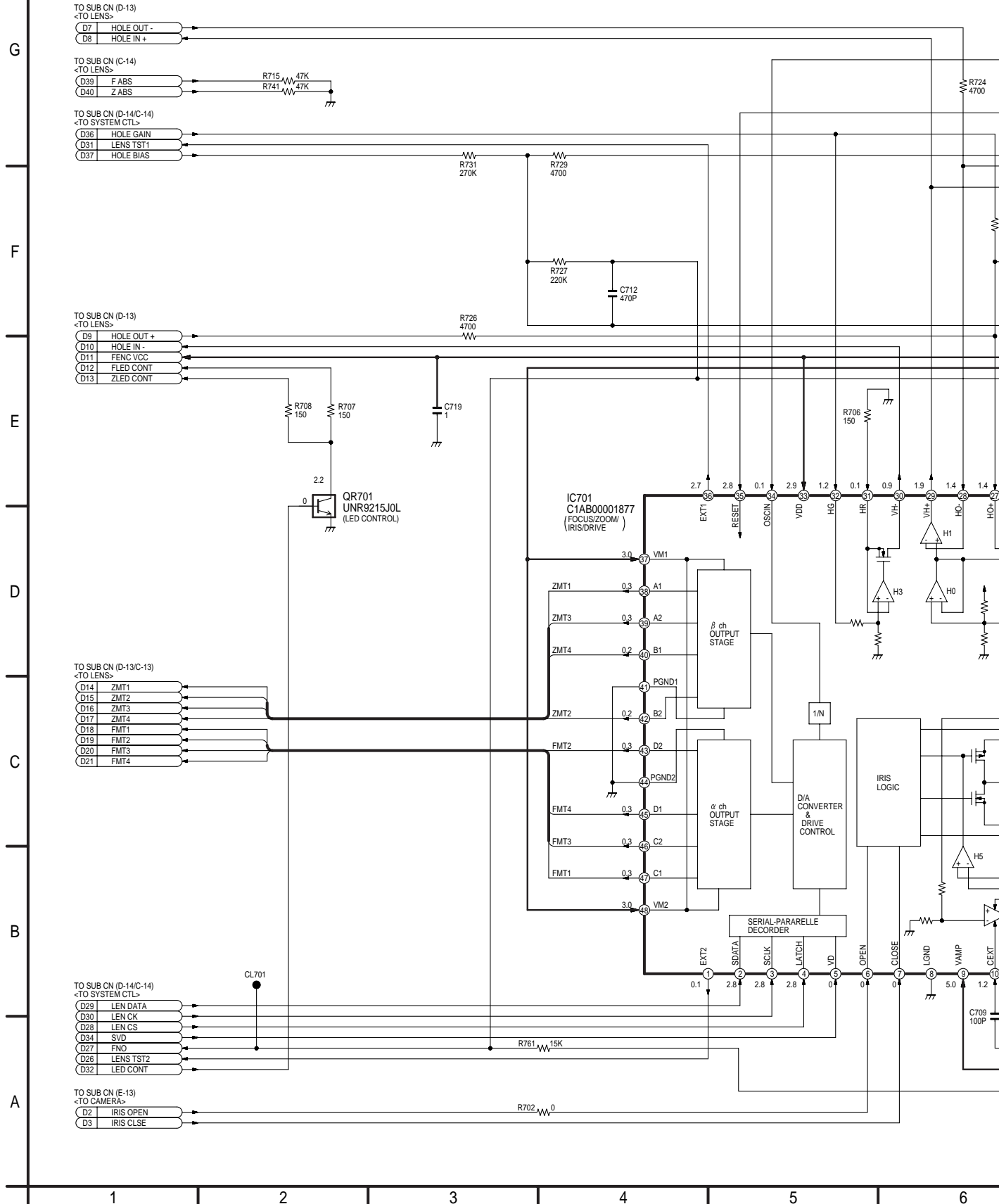
Pin No.	Signal Name	I/O	Explanation
167	TDI	I	TEST Serial Data Input
168	TDO	O	TEST Serial Data Output
169	TCK	I	TEST Serial Clock
170	A VSS	-	GND
171	E VSS	-	GND
172	VSS	-	GND
173	TMS	I	TEST Master Clock
174	TRST	I	TEST Reset
175	E VDD	I	Voltage
176	MODE J	I	Mode Select
177	XREADY	I	X Ready Strobe
178	S/S	I	Start/Stop Switch Input
179	ASP3 CS	O	ASP3 Chip Select
180	GUI LED	O	Guide LED Drive
181	LED CNT	O	LED Drive Control
182	ASP2 CS	O	ASP2 Chip Select
183	XRST ARM	O	System Reset
184	TRIG END	-	Not Used
185	CHARGE	-	Not Used
186	ND OPEN	-	GND
187	VDD	I	Voltage
188	C VDD	I	Voltage
189	CK SEL1	I	Clock Select
190	RESET	I	Reset
191	X1	I	OSC In
192	X2	I	OSC In
193	P VSS	-	GND
194	C VSS	-	GND
195	P VDD	I	Voltage
196	PLL SEL	I	PLL Select
197	AFST	O	Process Timing Pulse
198	E2 SDI	I	EEPROM Serial Data In
199	E2 SDO	O	EEPROM Serial Data Out
200	E2 SCK	O	EEPROM Serial Clock
201	CAM T	I	Camera Test
202	NC	-	Not Used
203	MEMO END	O	Memory End
204	NC	-	Not Used
205	WINK END	I	Wink End
206	SHTR CLOSE	-	Not Used
207	VSS	-	GND
208	E VSS	-	GND
209	NC	-	Not Used

VDR-D250P/PC  
SYSTEM CONTROL  
I/O TABLE

## 13.19. SUB (LENS DRIVE) SCHEMATIC DIAGRAM

(SUB P.C.B.)

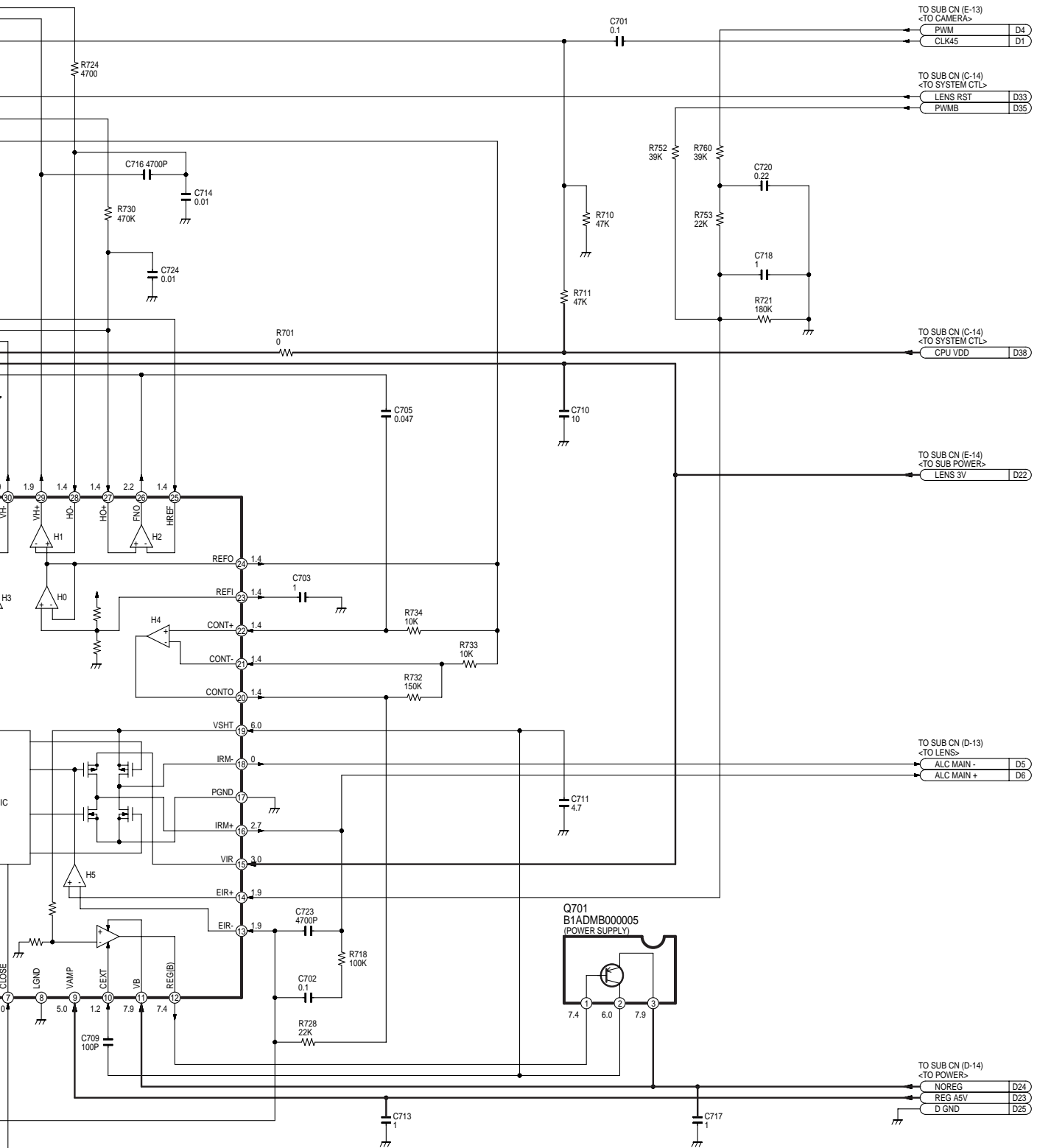
REFER TO SUB CONNECTION



NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

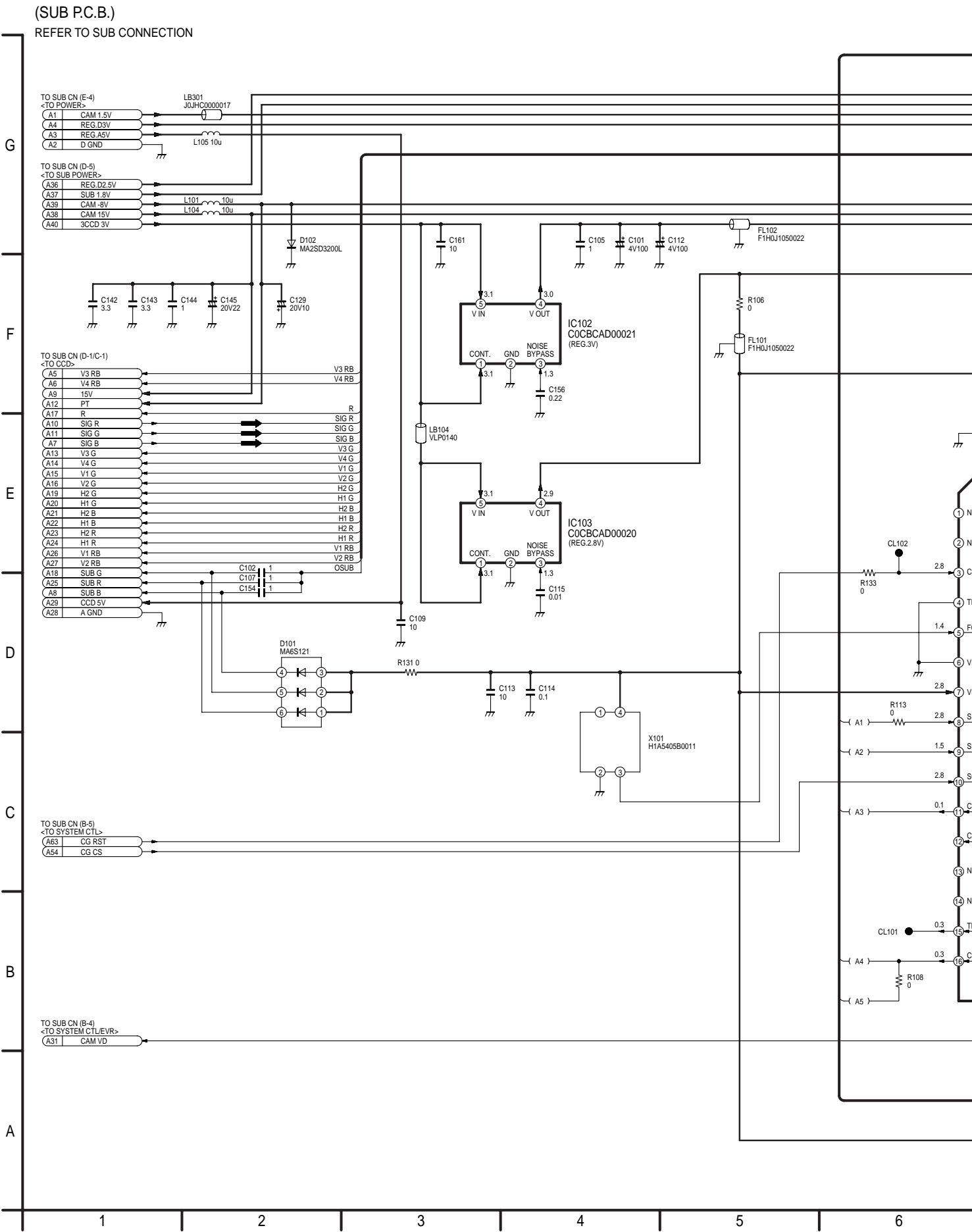


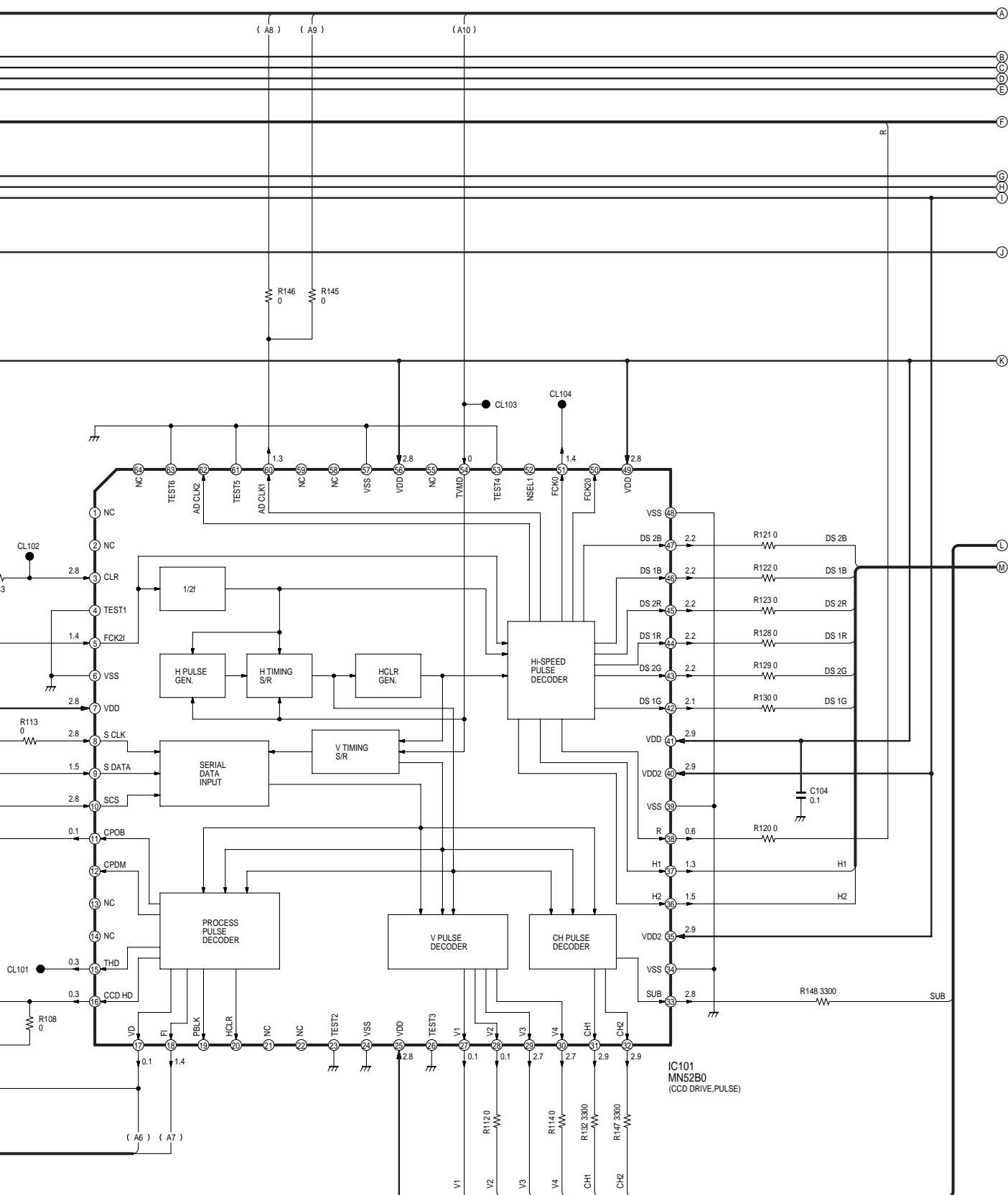
VDR-D250P/PC  
SUB (LENS DRIVE) SCHEMATIC DIAGRAM

6 7 8 9 10 11



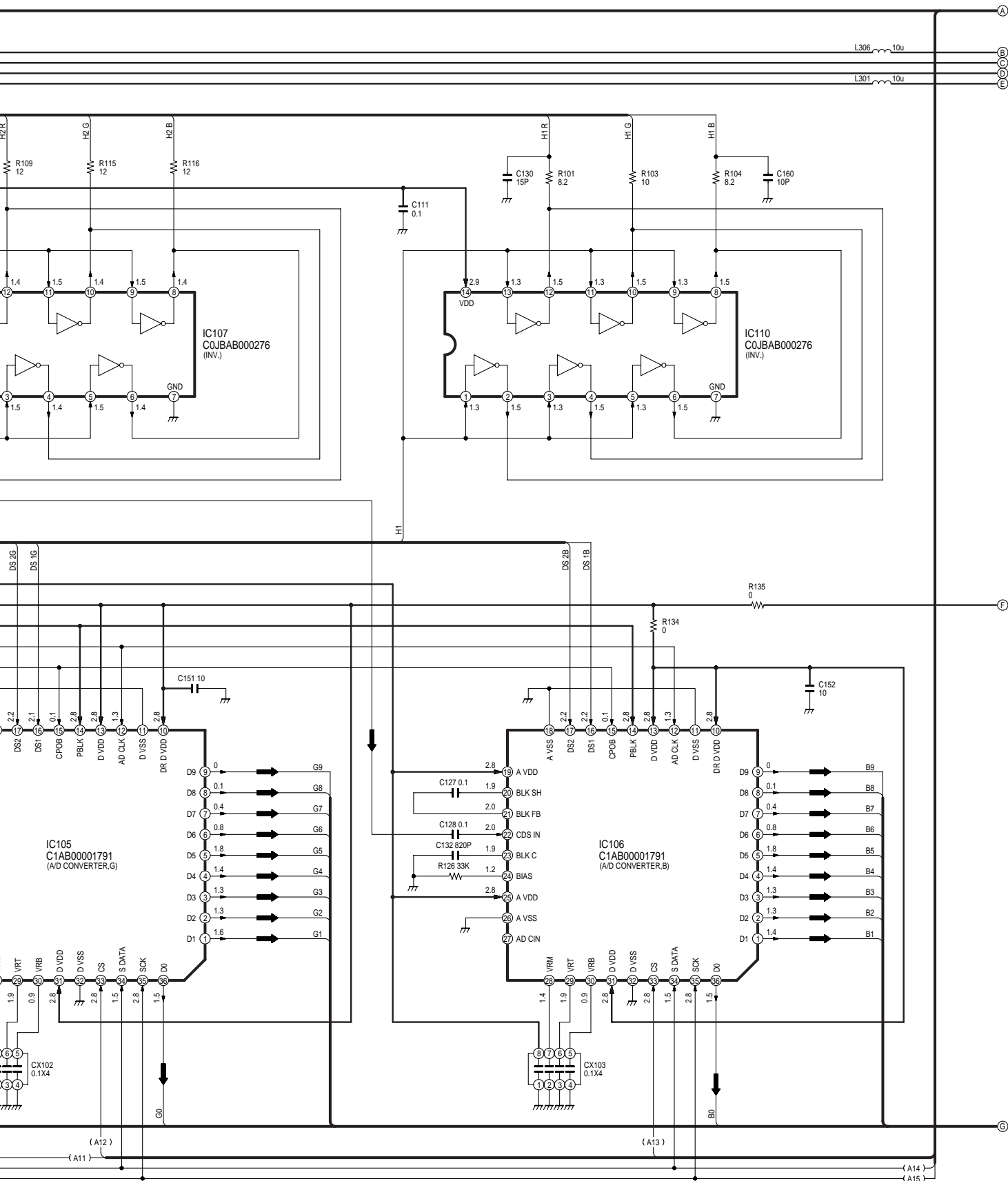
13.20. SUB (CAMERA) SCHEMATIC DIAGRAM





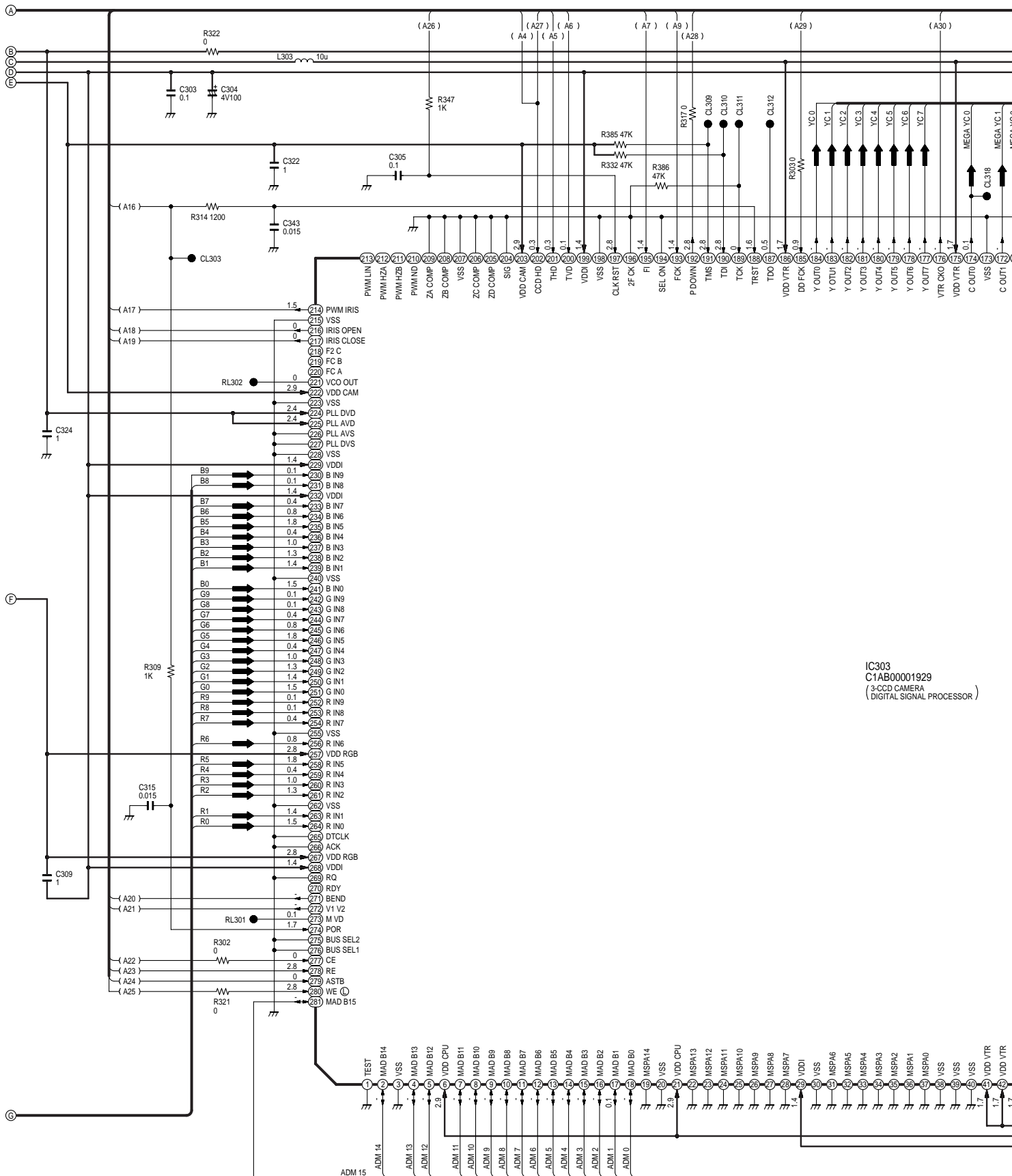
VDR-D250P/PC  
SUB (CAMERA) SCHEMATIC DIAGRAM





VDR-D250P/PC SUB (CAMERA) SCHEMATIC DIAGRAM

NOTE:  
DO NOT USE ANY PART  
THIS SCHEMATIC DIAGRAM  
WHEN YOU ORDER A PART  
TO PARTS LIST.

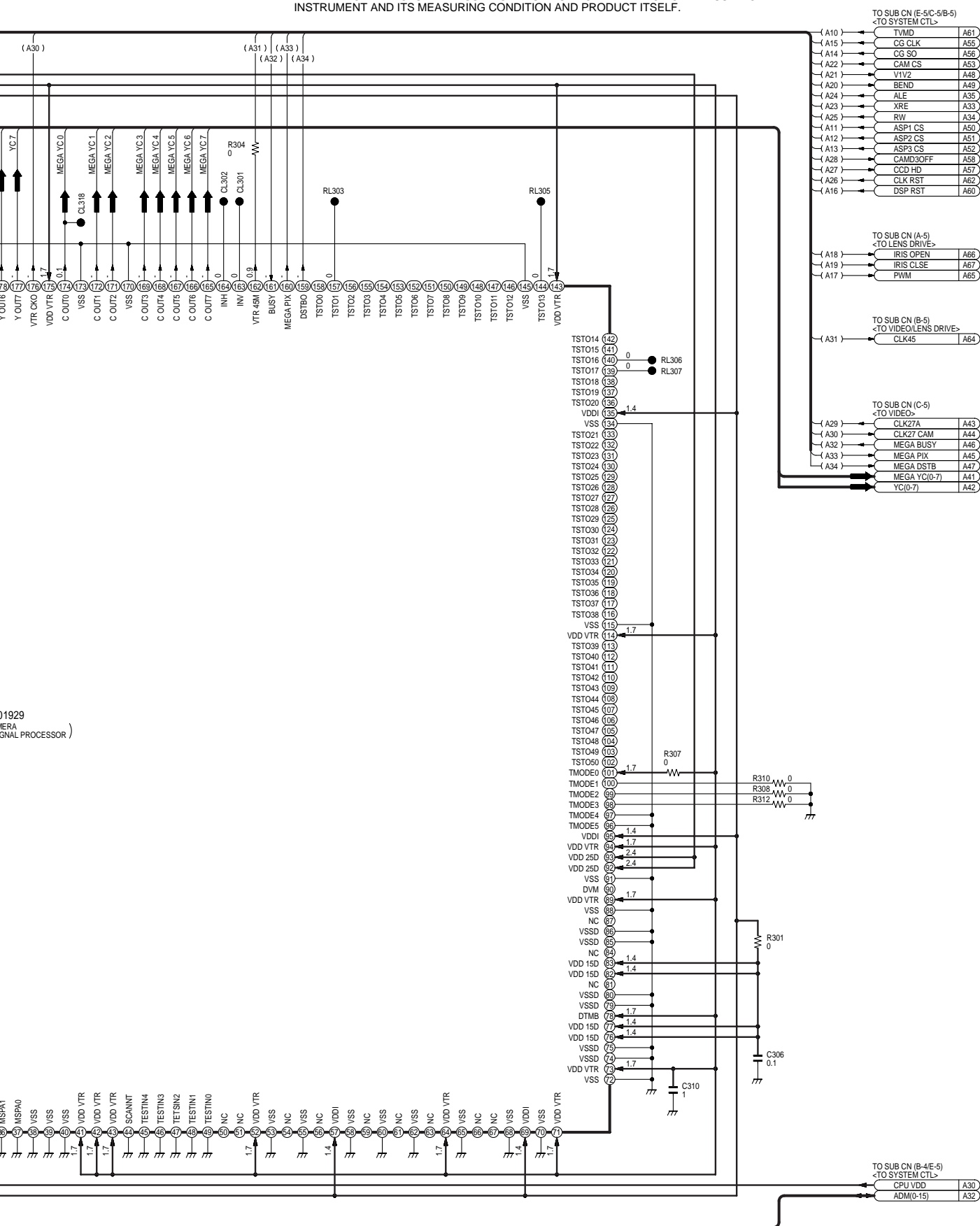


VDR-D250P/PC SUB (CAMERA) SCHEMATIC DIAGRAM

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO THE PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

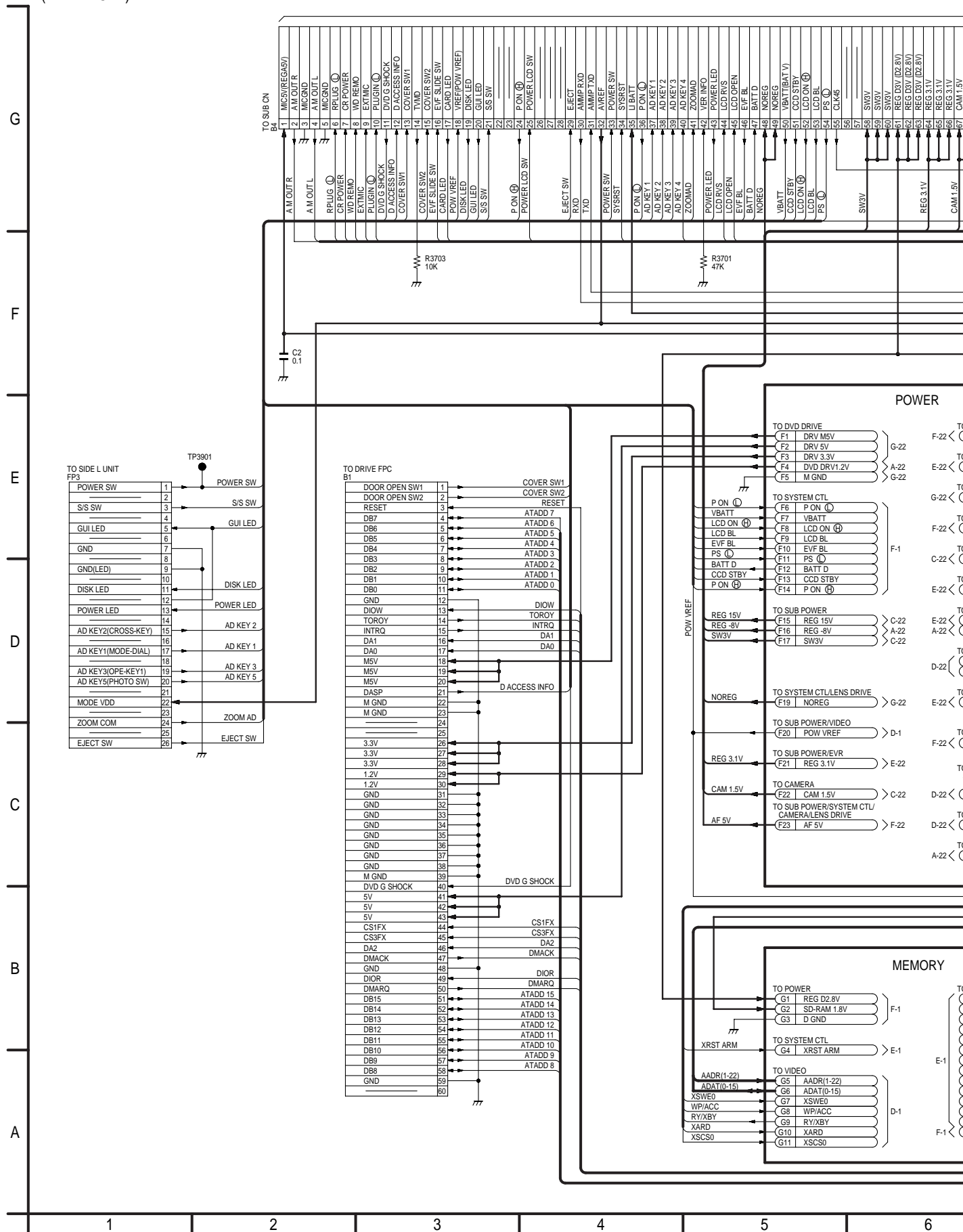
NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT. BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

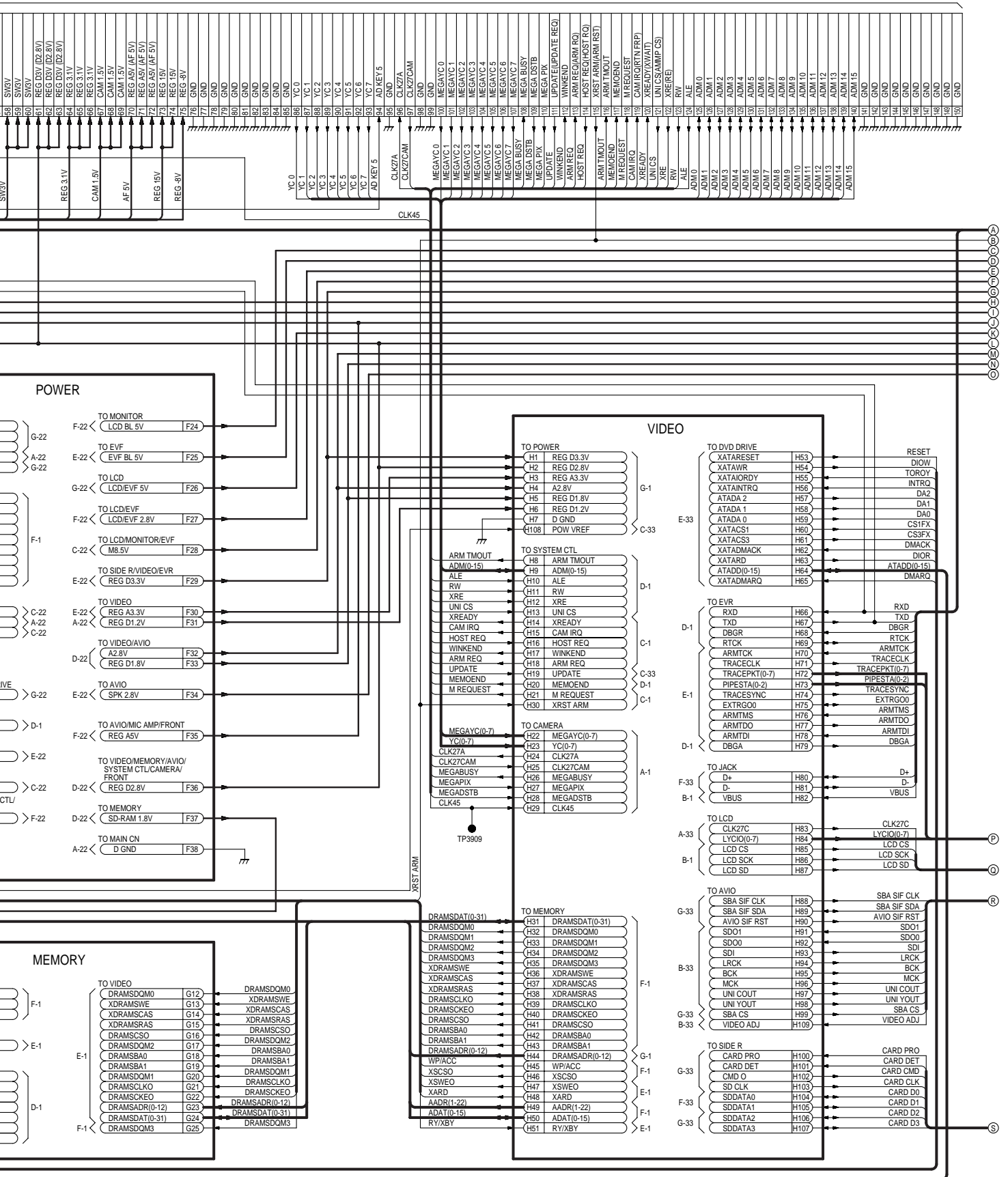


VDR-D250P/PC SUB (CAMERA) SCHEMATIC DIAGRAM

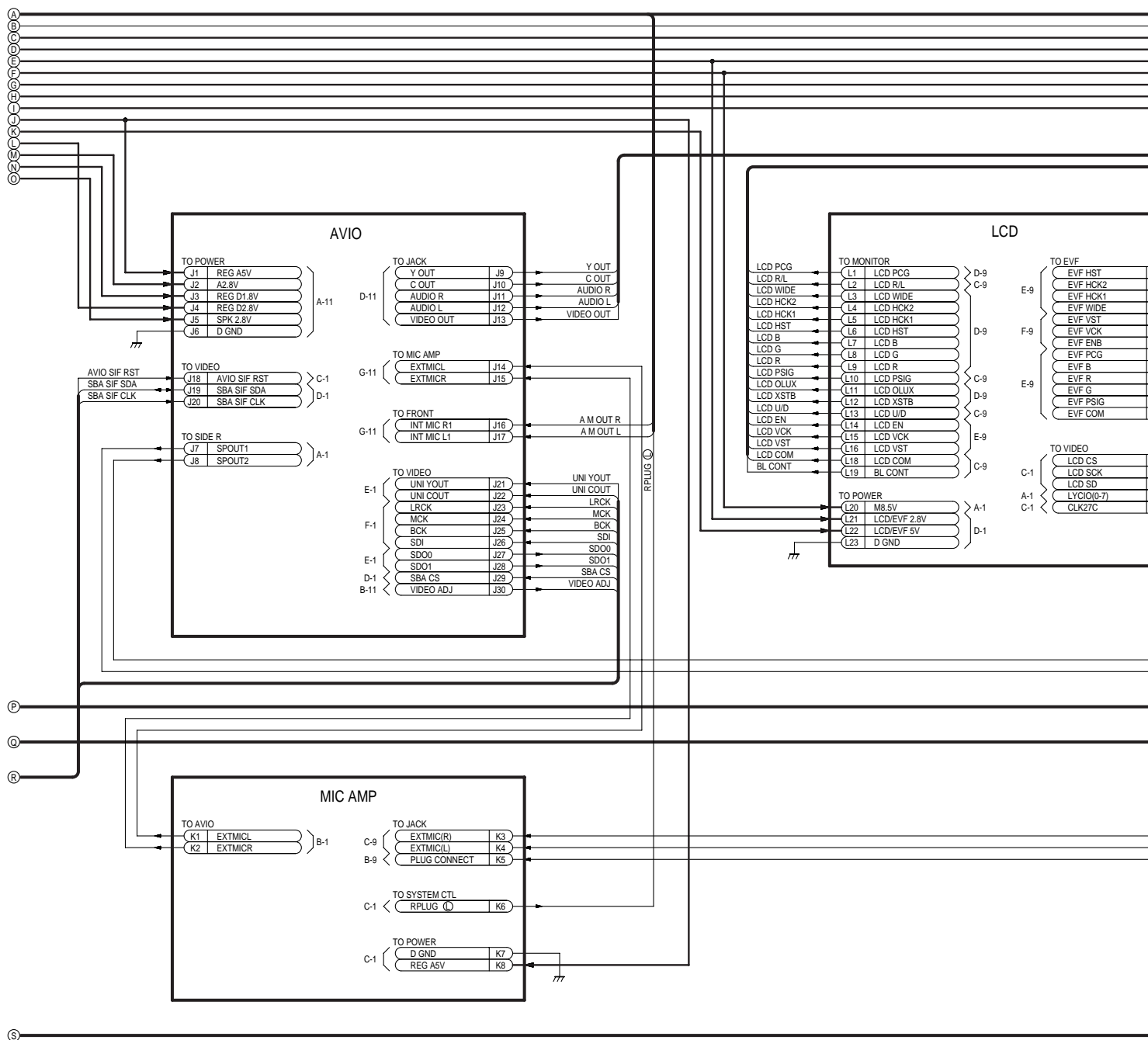
# 13.21. MAIN (MAIN CONNECTION) SCHEMATIC DIAGRAM

(MAIN P.C.B.)



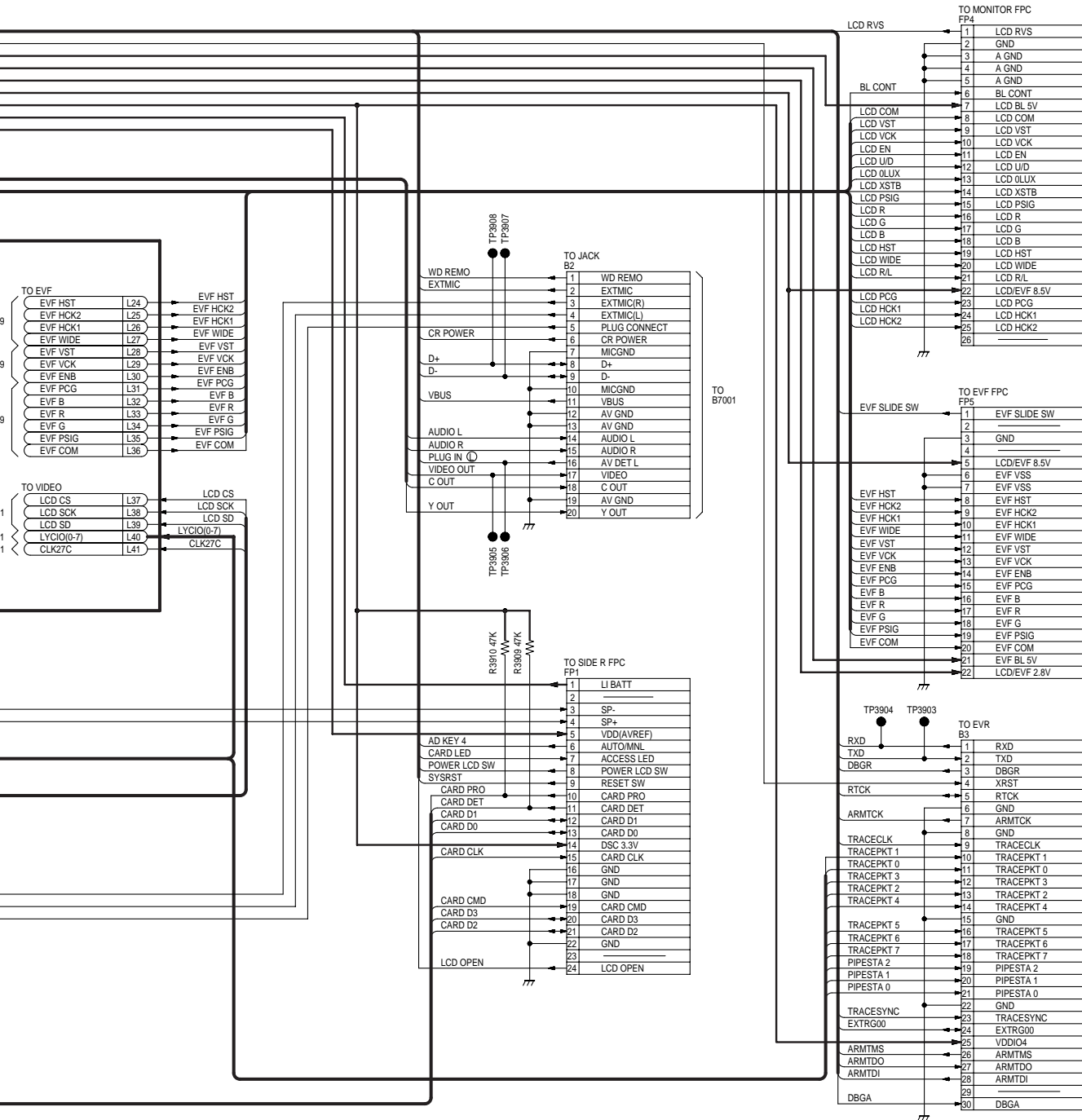






VDR-D250P/PC MAIN (MAIN CONNECTION) SCHEMATIC DIAGRAM

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.



VDR-D250P/PC MAIN (MAIN CONNECTION) SCHEMATIC DIAGRAM

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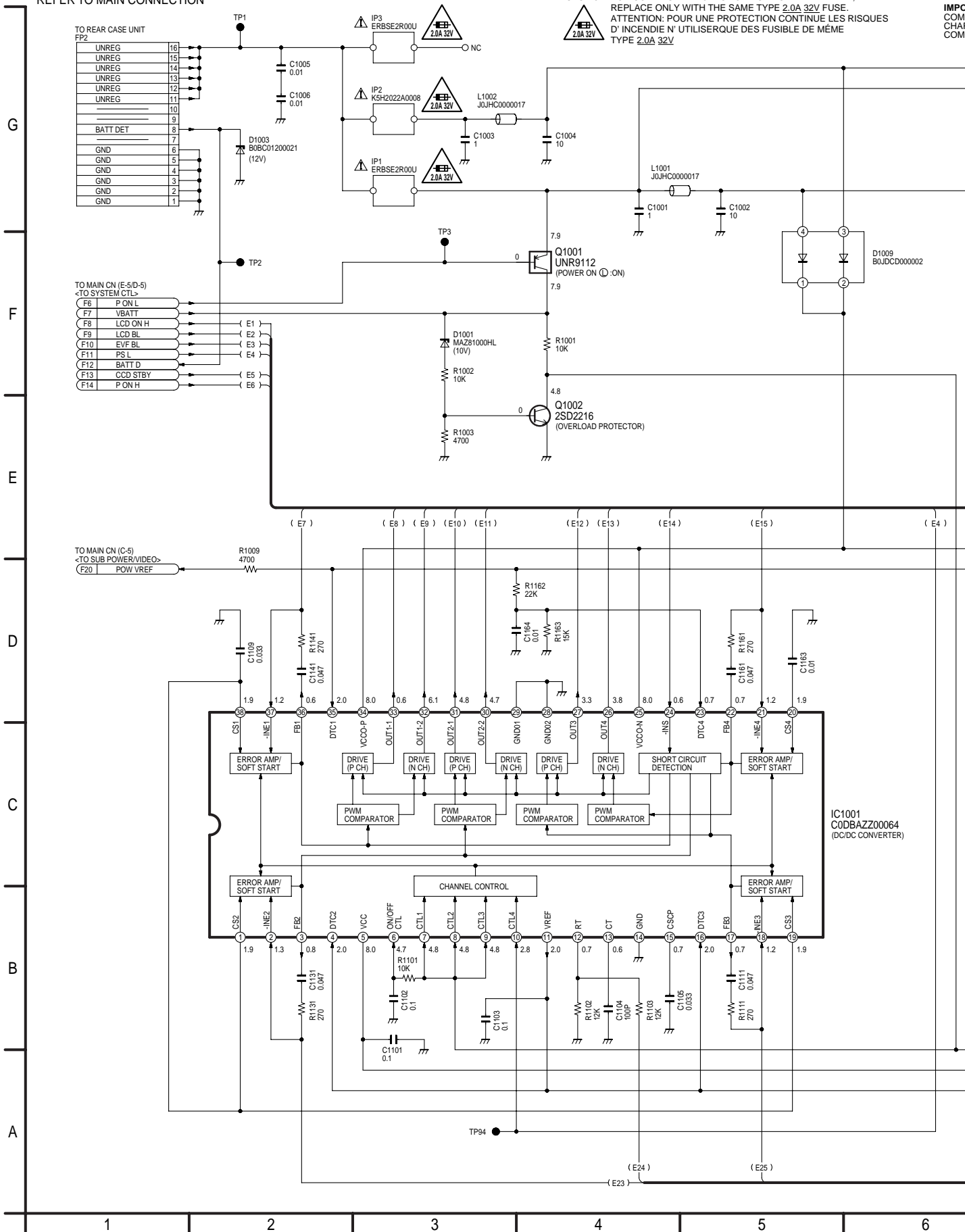
21

22

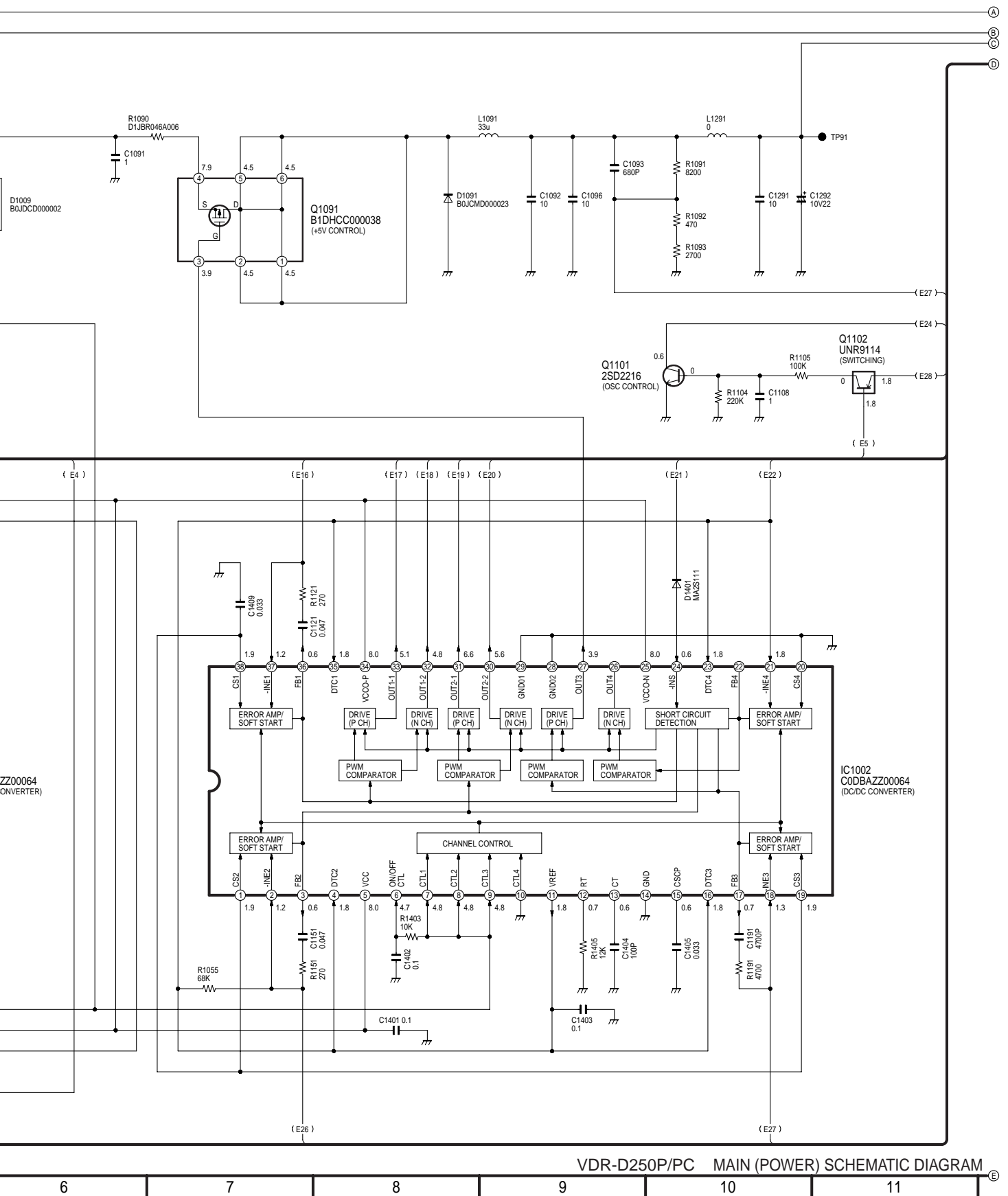
## 13.22. MAIN (POWER) SCHEMATIC DIAGRAM

(MAIN P.C.B.)

REFER TO MAIN CONNECTION



**IMPORTANT SAFETY NOTICE:**  
COMPONENTS IDENTIFIED WITH THE MARK  $\Delta$  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



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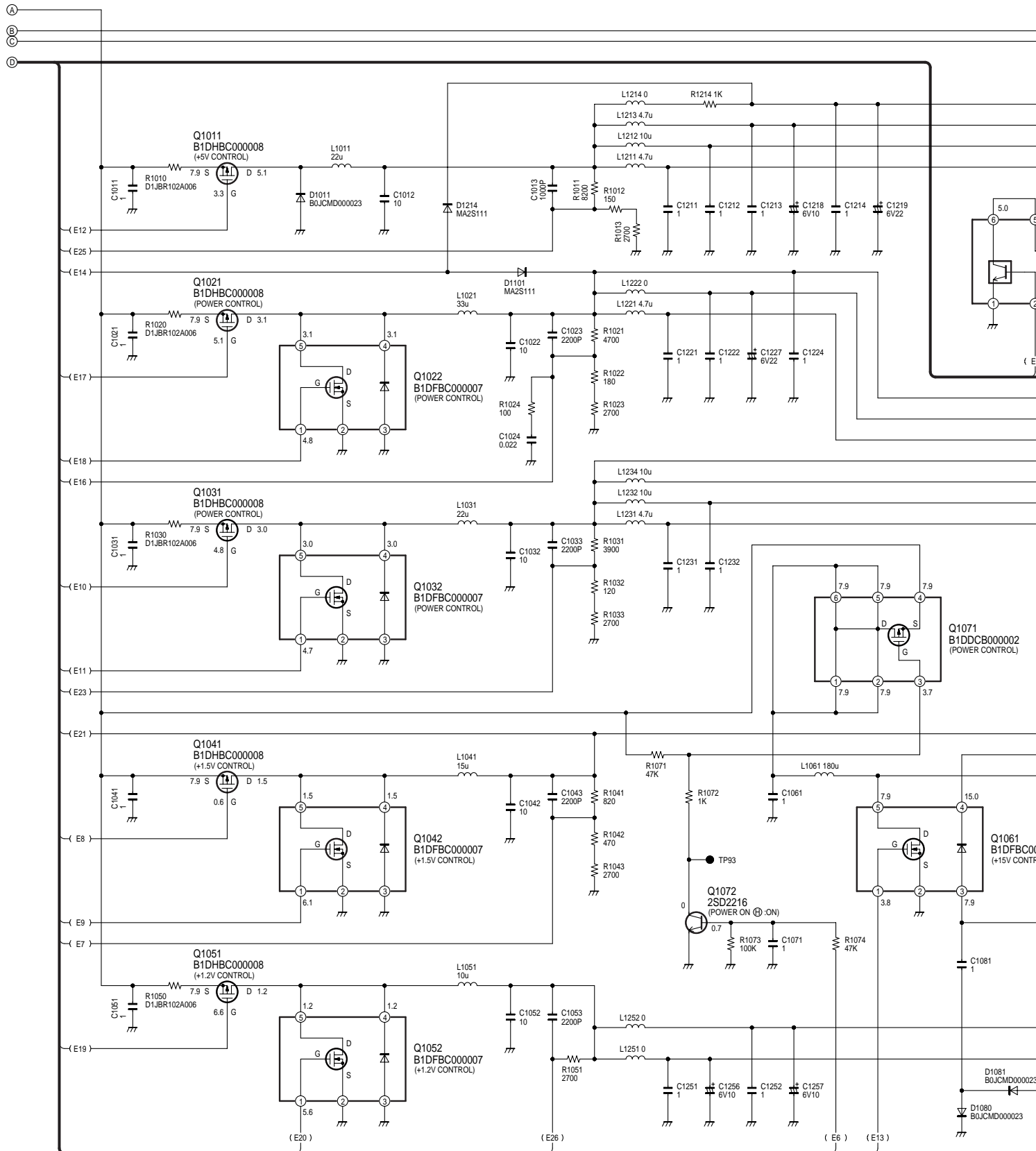
9

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NOTE:  
DO NOT USE ANY PART NUMBER SHC  
THIS SCHEMATIC DIAGRAM FOR ORD  
WHEN YOU ORDER A PART, PLEASE R  
TO PARTS LIST.



VDR-D250P/PC MAIN (POWER) SCHEMATIC DIAGRAM

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

The schematic diagram illustrates the power supply section of a DVD player, featuring several integrated circuits (ICs), transistors, diodes, resistors, and capacitors. The components are interconnected to provide various voltage rails for the system.

**Key Components and Connections:**

- Q1071 B1DDCB000002 (POWER CONTROL):** Connected to the main power input (E3) and provides a 5.0V output to the main CN (E-5) and to the DVD drive (F19).
- Q1414 XP4314 (EVF BL ON/ON):** A PNP transistor that controls the EVF BL 5V output (F25) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1412 2SB09700RL (LCD BL ON/ON):** A PNP transistor that controls the LCD BL 5V output (F24) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1413 2SD2216 (LCD BL DRIVE):** An NPN transistor that drives the LCD BL 5V output (F24) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1411 UNR9114 (LCD ON/ON):** A PNP transistor that controls the LCD ON/ON output (F26) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1431 2SB09700RL (LCD ON/ON):** A PNP transistor that controls the LCD ON/ON output (F26) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1432 2SD2216 (LCD ON/ON):** An NPN transistor that drives the LCD ON/ON output (F26) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1461 2SB1462 (LCD ON/ON):** A PNP transistor that controls the LCD ON/ON output (F26) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1462 2SD2216 (LCD ON/ON):** An NPN transistor that drives the LCD ON/ON output (F26) through a network of resistors (R1411, R1412, R1413, R1414) and capacitors (C1411, C1412).
- Q1361 2SB1462 (+8.5V CONTROL):** A PNP transistor that controls the +8.5V output (F17) through a network of resistors (R1361, R1362, R1363, R1364) and capacitors (C1361, C1362, C1363, C1364).
- Q1362 XP1501 (+8.5V CONTROL):** A PNP transistor that controls the +8.5V output (F17) through a network of resistors (R1361, R1362, R1363, R1364) and capacitors (C1361, C1362, C1363, C1364).
- Q1061 B1DFBC000007 (+15V CONTROL):** A PNP transistor that controls the +15V output (F15) through a network of resistors (R1061, R1062, R1063, R1064) and capacitors (C1061, C1062, C1063, C1064).
- IC1231 C0CBCAC00117 (REG.+1.8V):** A voltage regulator that provides a +1.8V output (F37) through a network of resistors (R1231, R1232, R1233, R1234) and capacitors (C1231, C1232, C1233, C1234).
- Q1081 B0JCMD0000023:** A diode that provides a +15V output (F15) through a network of resistors (R1081, R1082, R1083, R1084) and capacitors (C1081, C1082, C1083, C1084).
- Q1082 B0JCMD0000023:** A diode that provides a +15V output (F15) through a network of resistors (R1081, R1082, R1083, R1084) and capacitors (C1081, C1082, C1083, C1084).
- Q1083 B0JCMD0000023:** A diode that provides a +15V output (F15) through a network of resistors (R1081, R1082, R1083, R1084) and capacitors (C1081, C1082, C1083, C1084).
- Q1084 B0JCMD0000023:** A diode that provides a +15V output (F15) through a network of resistors (R1081, R1082, R1083, R1084) and capacitors (C1081, C1082, C1083, C1084).

The diagram also shows various test points (TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP40, TP41, TP42, TP43, TP44, TP45, TP46, TP47, TP48, TP49, TP50) and their connections to the main CN (E-5) and to the DVD drive (F19).

17	18	19	20	21	22
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## 13.23. MAIN (AVIO) SCHEMATIC DIAGRAM

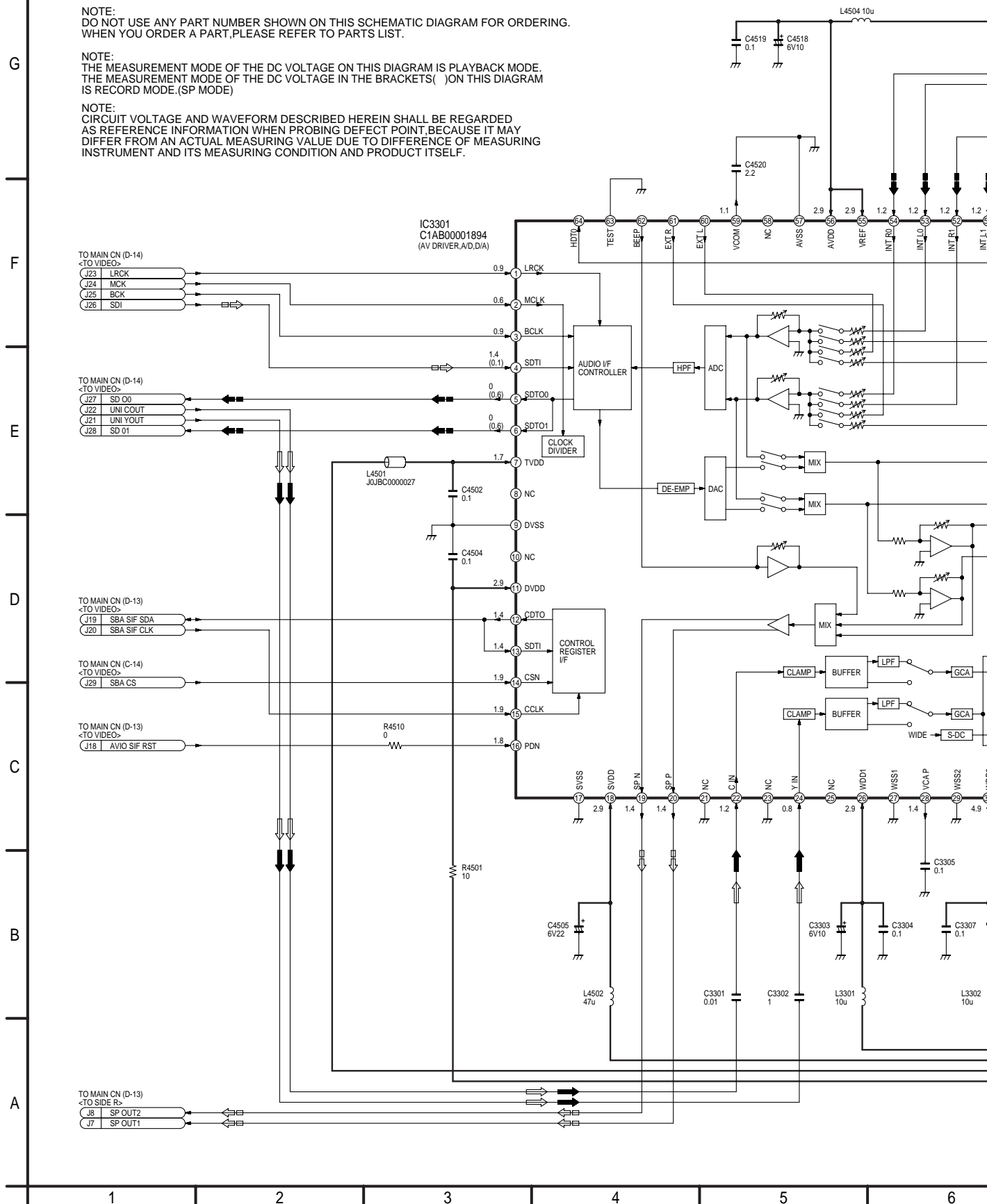
(MAIN P.C.B.)

REFER TO MAIN CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

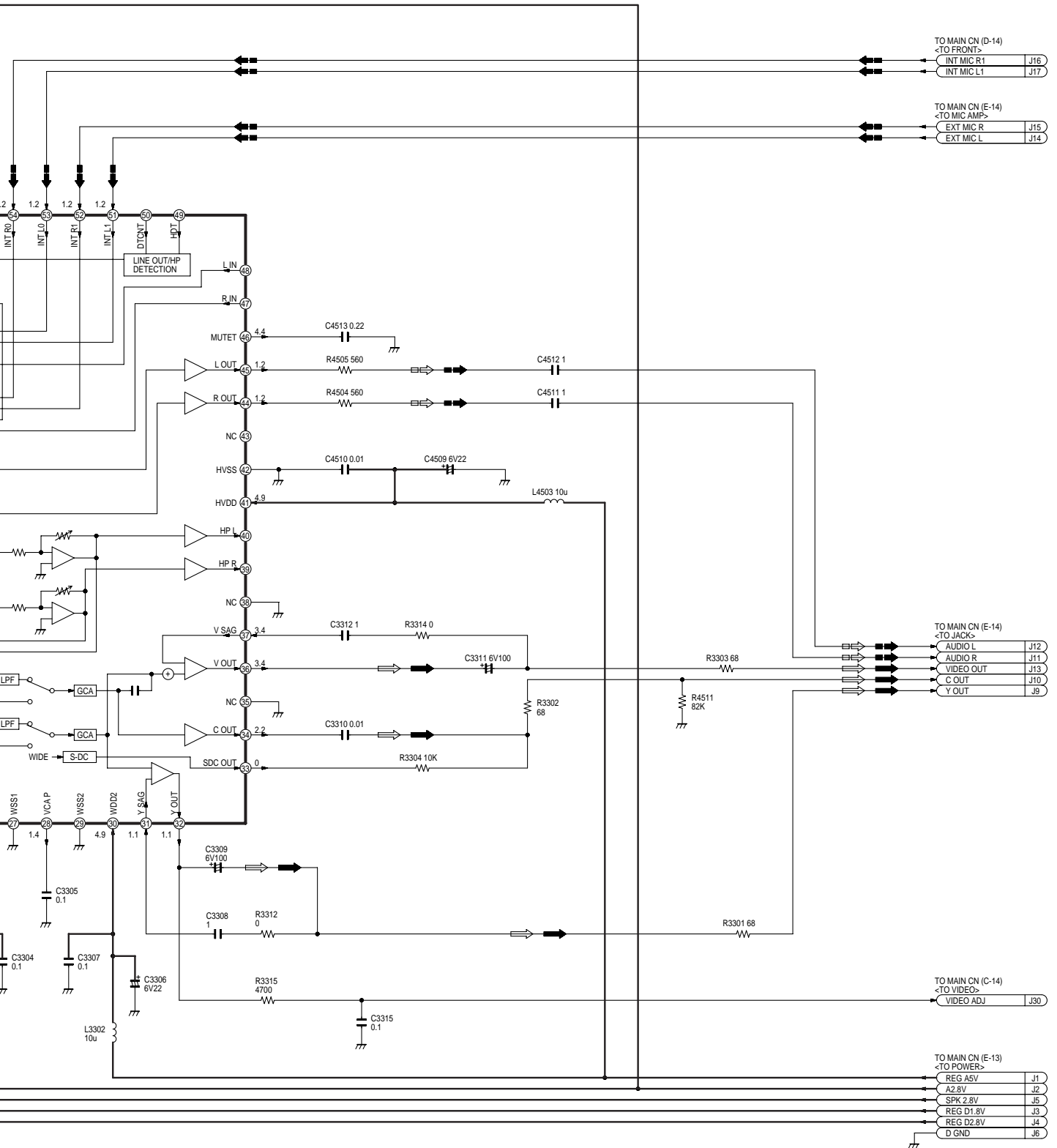
NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE. (SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.



■■■ : VIDEO MAIN SIGNAL PATH IN REC MODE  
 ⇨ : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

■■■ : AUDIO MAIN SIGNAL PATH IN REC MODE  
 □⇨ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



VDR-D250P/PC  
MAIN (AVIO) SCHEMATIC DIAGRAM

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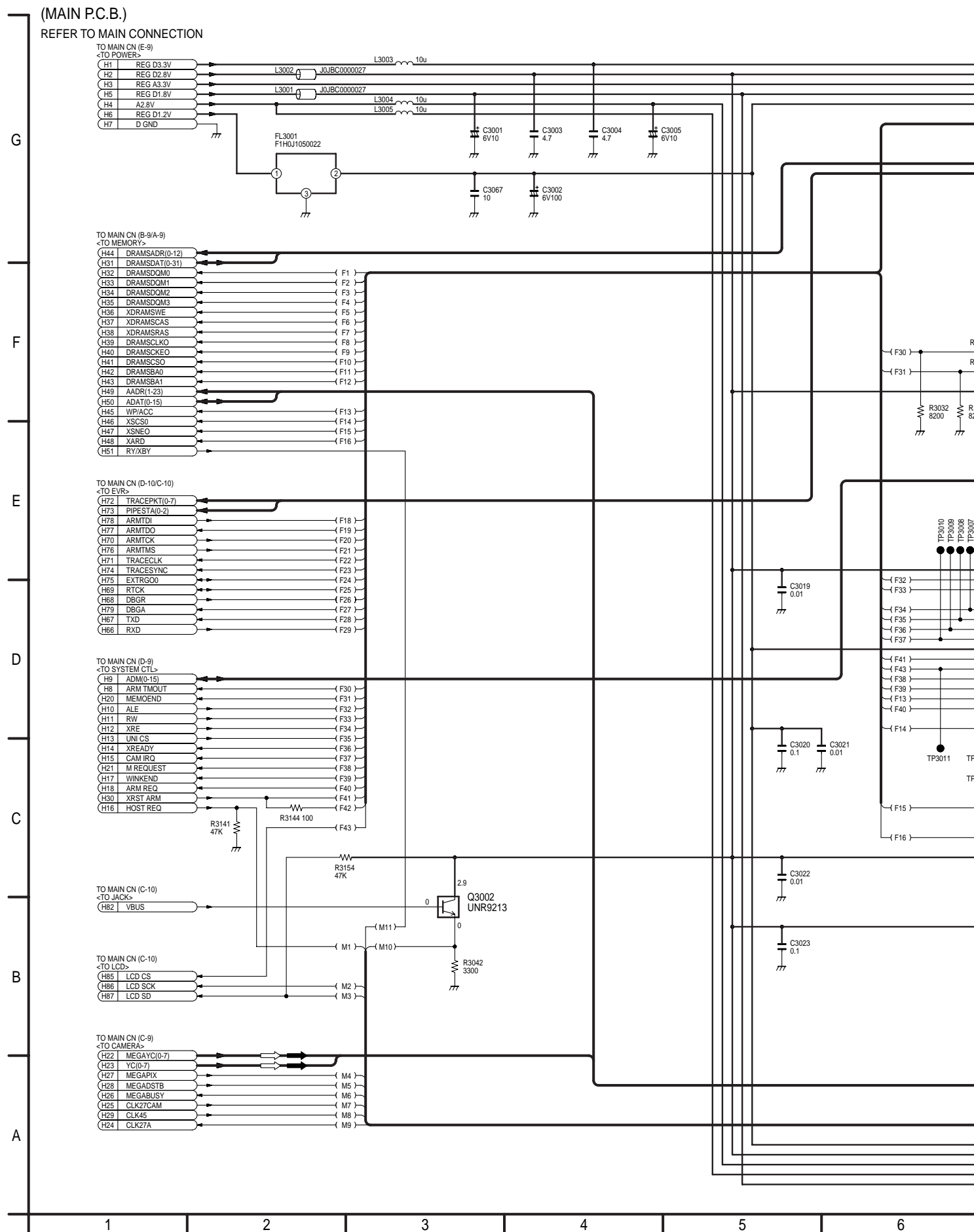
9

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11



## 13.24. MAIN (VIDEO) SCHEMATIC DIAGRAM











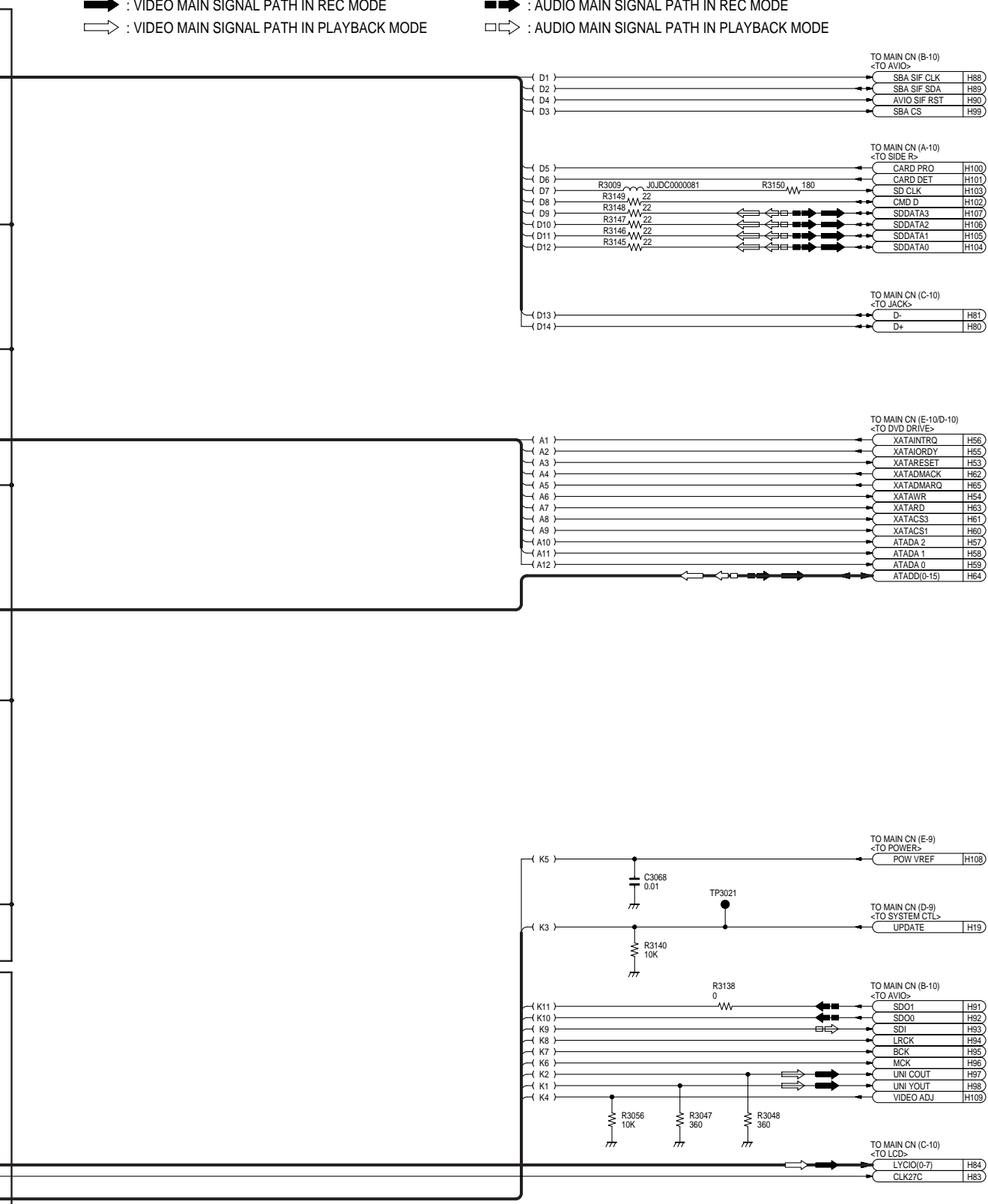
IF SHOWN ON  
OR ORDERING.  
PLEASE REFER

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD  
MODE.(SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH IN REC MODE  
➡ : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

➡ : AUDIO MAIN SIGNAL PATH IN REC MODE  
➡ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



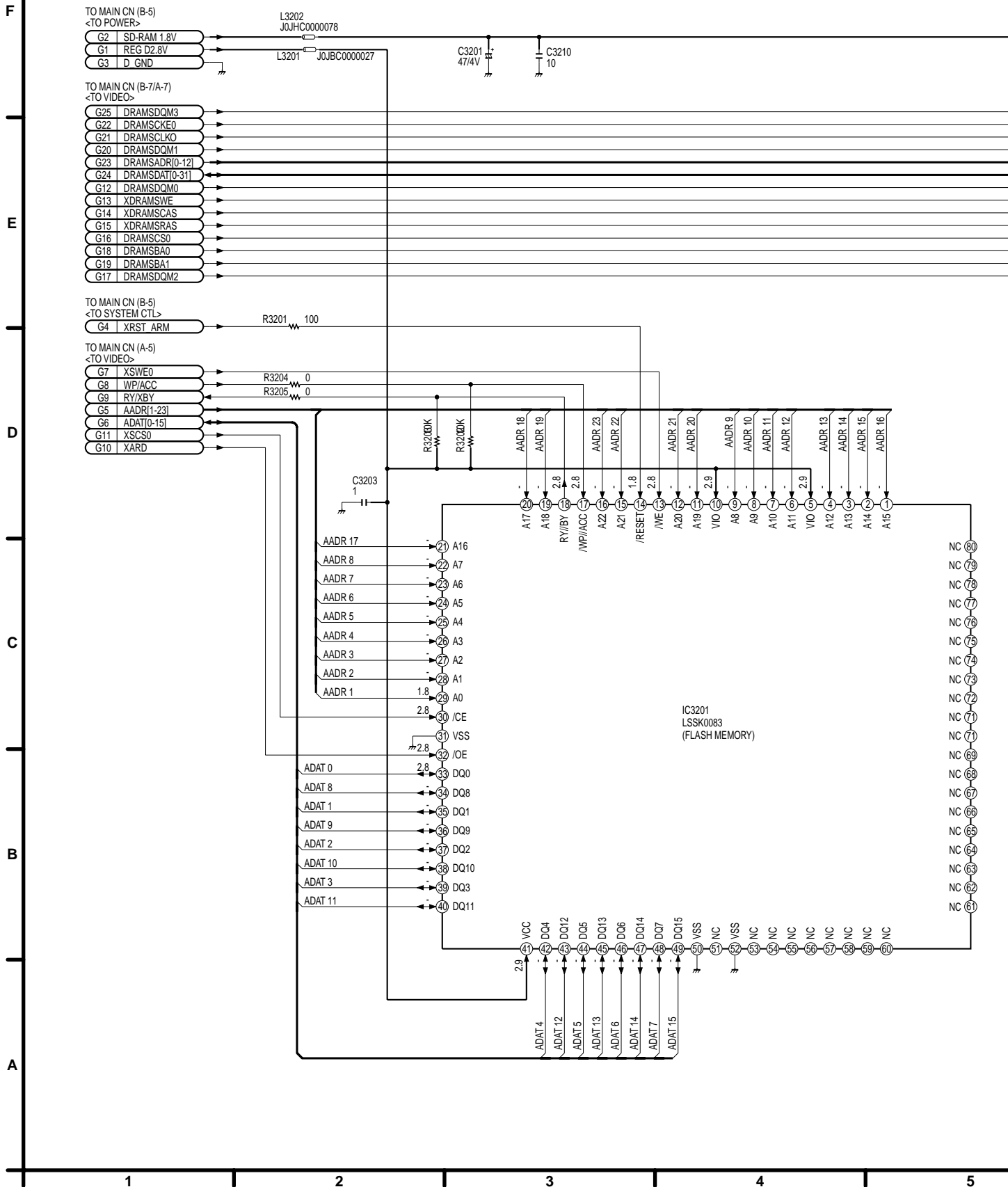
VDR-D250P/PC  
MAIN (VIDEO) SCHEMATIC DIAGRAM

## 13.25. MAIN (MEMORY) SCHEMATIC DIAGRAM

(MAIN P.C.B.)

REFER TO MAIN CONNECTION

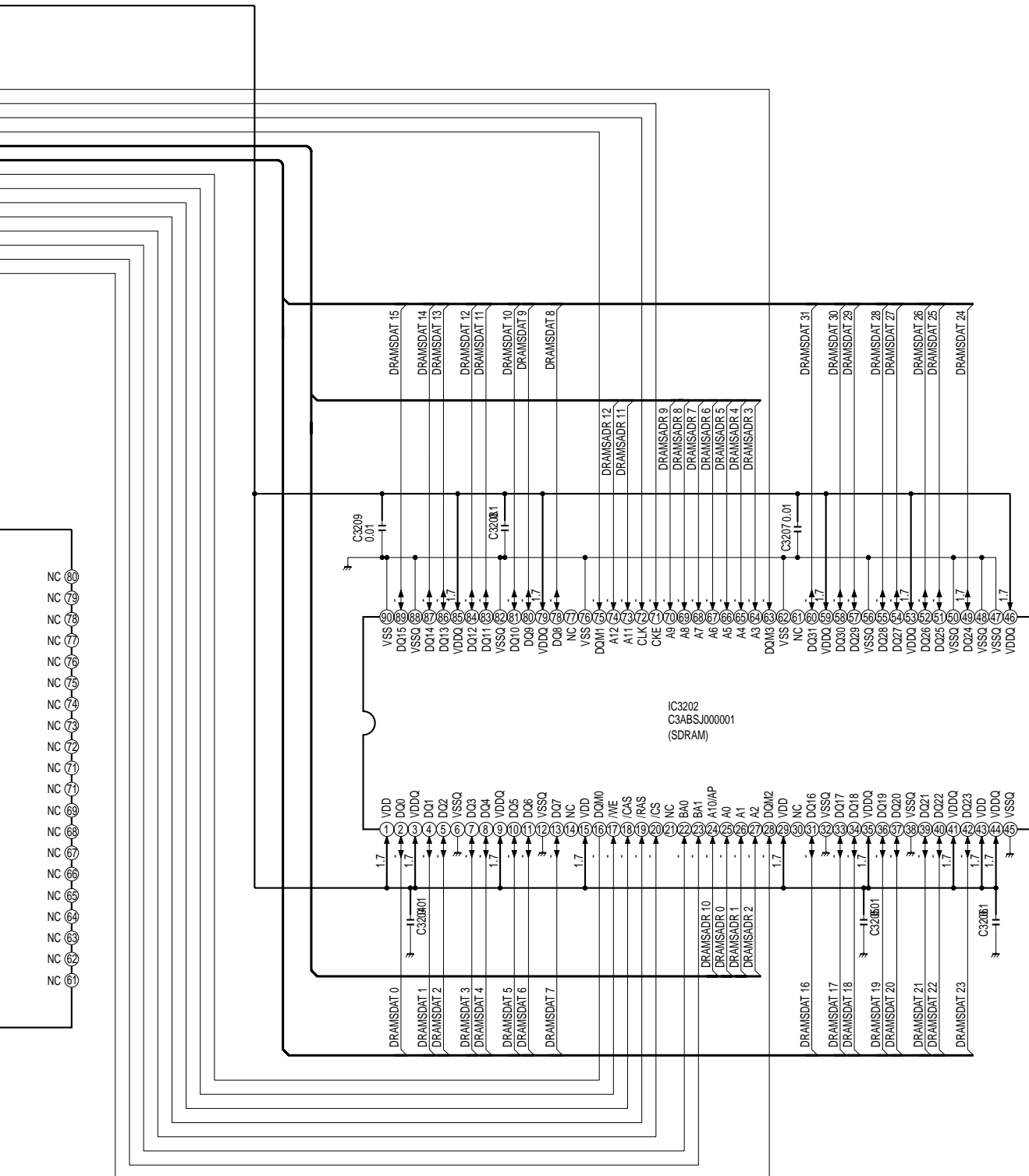
NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.



NUMBER SHOWN ON  
FOR ORDERING.  
PLEASE REFER

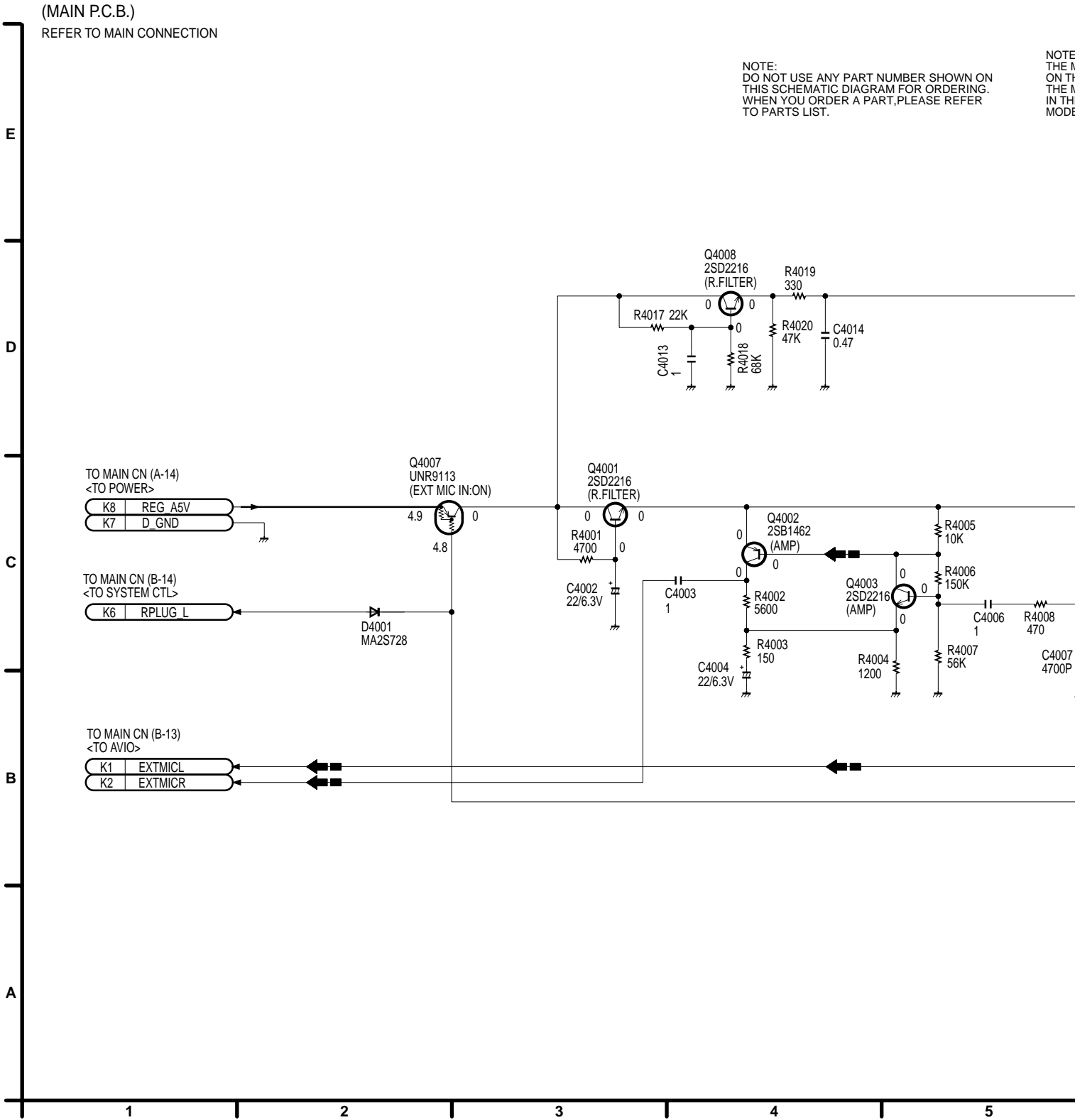
NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD  
MODE.(SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT, BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.





13.26. MAIN (MIC AMP) SCHEMATIC DIAGRAM

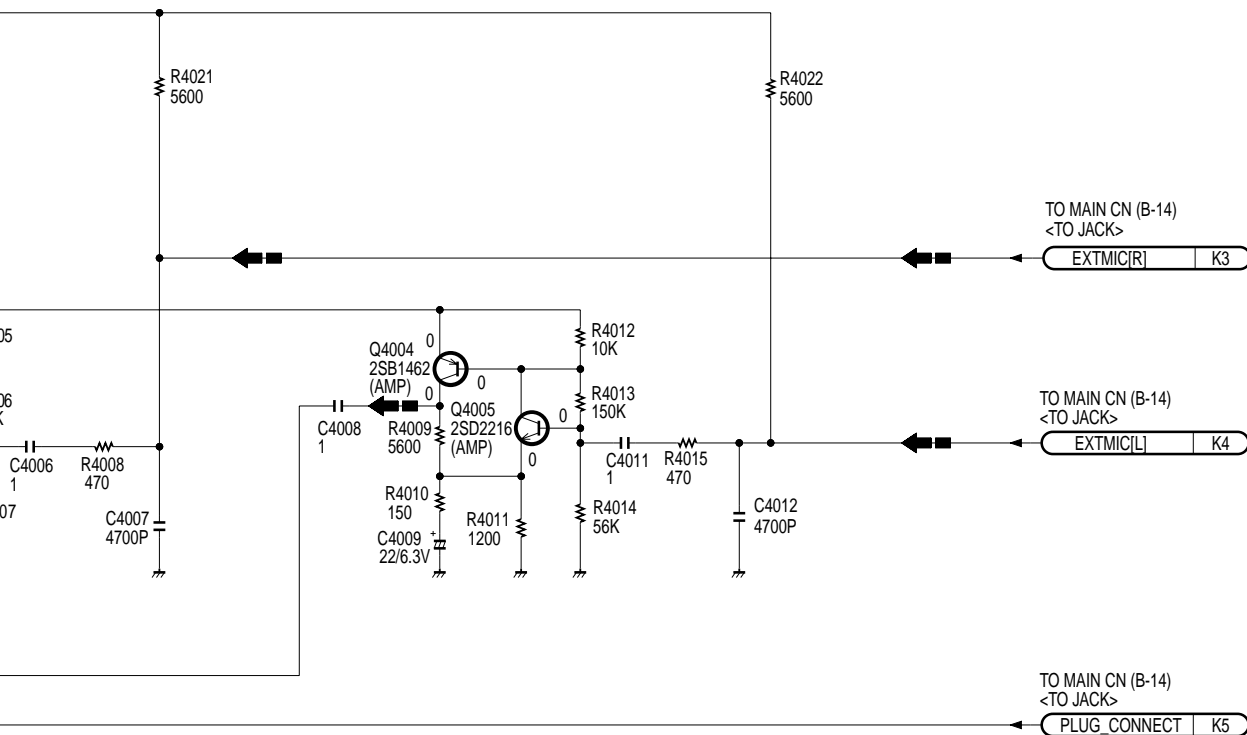




NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD  
MODE.(SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

■ ■ ➡ : AUDIO MAIN SIGNAL PATH IN REC MODE



VDR-D250P/PC  
MAIN (MIC AMP) SCHEMATIC DIAGRAM



## 13.27. MAIN (LCD) SCHEMATIC DIAGRAM

(MAIN P.C.B.)

REFER TO MAIN CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

F

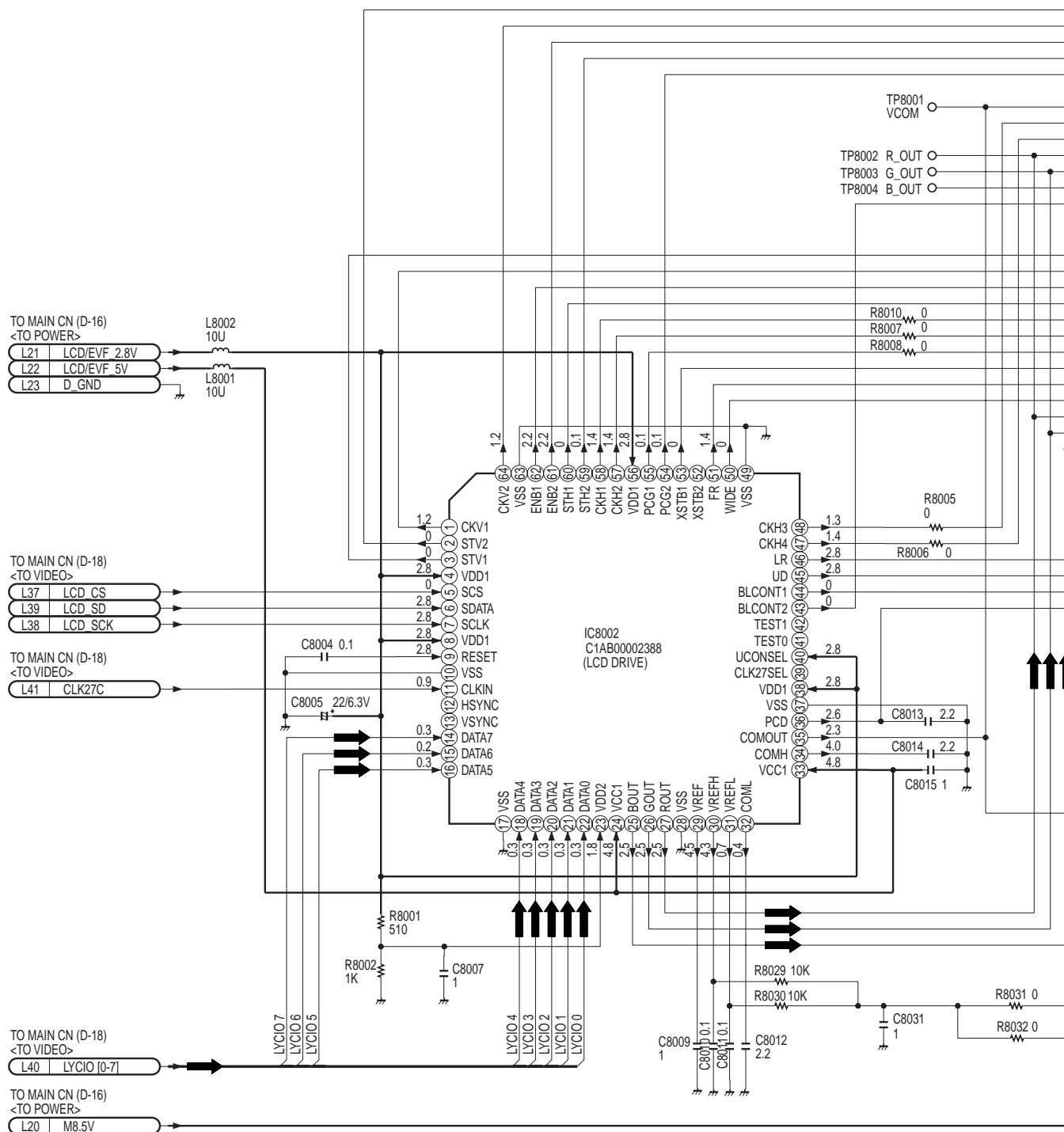
E

D

C

B

A

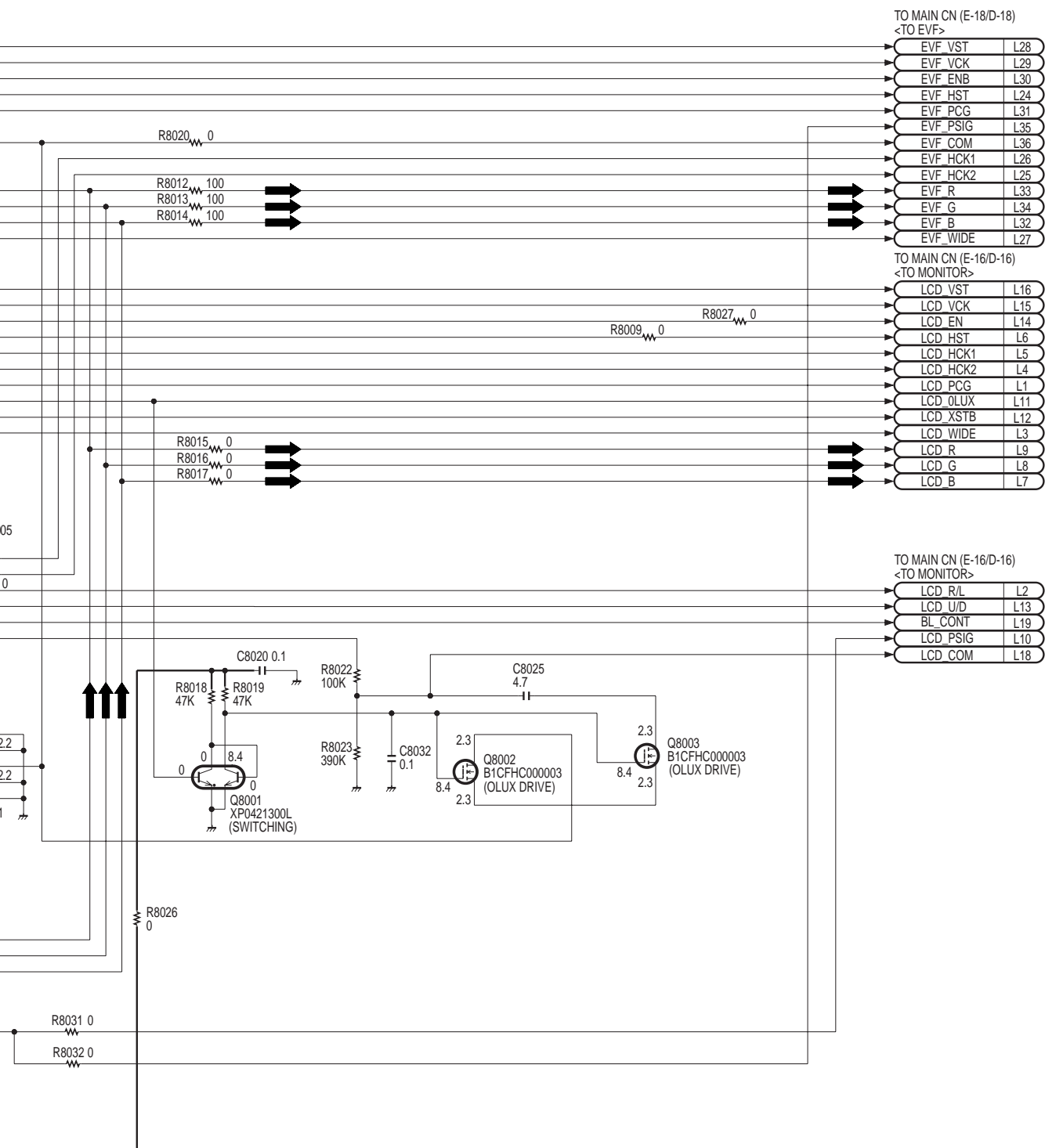


HOW ON  
ORDERING.  
E REFER

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS  
DIAGRAM IS STOP MODE.(MONITOR:ON)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH



VDR-D250P/PC  
MAIN (LCD) SCHEMATIC DIAGRAM





NOTE:

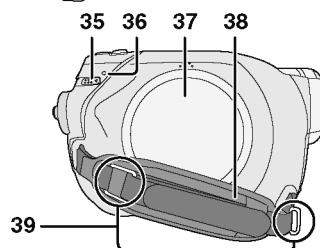
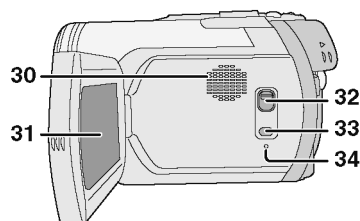
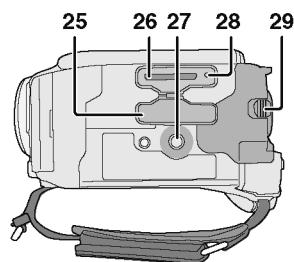
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

## Parts identification and handling

- 25 Card slot cover
- 26 Card slot
- 27 Tripod receptacle
- 28 Card access lamp
- 29 Battery release lever [BATTERY RELEASE]
- 30 Speaker
- 31 LCD monitor

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD monitor screen. However, this is not a malfunction and does not affect the recorded picture.

- 32 Mode select switch [AUTO/MANUAL/FOCUS]
- 33 Power LCD button [POWER LCD]
- 34 Reset button [RESET]
- 35 Disc eject lever [DISC EJECT]
- 36 Disc/computer access lamp [ACCESS/PC]
- 37 Disc compartment
- 38 Grip belt
- 39 Shoulder strap fixture



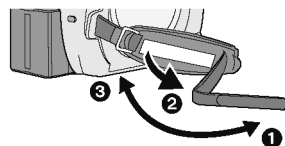
## Using grip belt

Adjust the belt length so it fits your hand.

### (U.S.A. only)

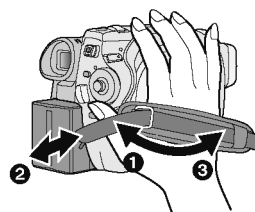
When this unit is purchased, a sensor tag is attached to the grip belt. Remove the tag before use.

- ❶ Flip the belt.
- ❷ Take off the tag.
- ❸ Replace the belt.



### Adjust the belt length and the pad position.

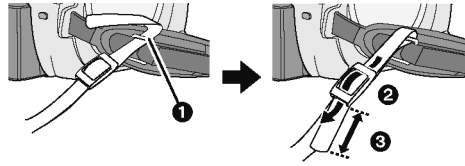
- ❶ Flip the belt.
- ❷ Adjust the length.
- ❸ Fix the belt.



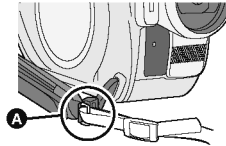


### Shoulder strap fixture

Put the strap through the fixture ❶ and through the stopper ❷ so it will not come off. Extend part ❸ by at least 2 cm (1").



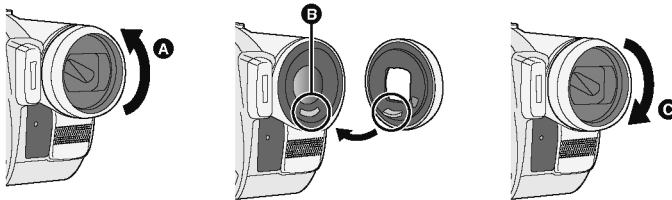
Put the opposite end of the strap through ❸ and attach it in the same way.



### Lens hood

In order to remove the lens hood, rotate it counter-clockwise ❶. In order to attach it, place into slot ❷, and then rotate it clockwise ❸.

- The lens hood has a built-in lens cover.

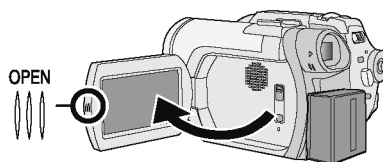


## Using the LCD monitor

You can record the image while viewing it on the LCD monitor.

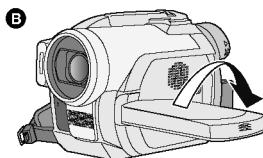
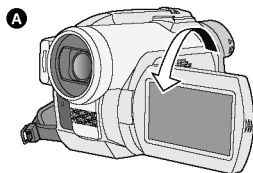
### 1 Place your finger on OPEN and pull the LCD monitor out in the direction of the arrow.

- It can open up to 90°.



### 2 Adjust the angle of the LCD monitor according to your preference.

- It can rotate up to 180° **A** towards the lens or 90° **B** towards the viewfinder.

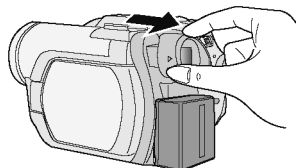


- The brightness and color level of the LCD monitor can be adjusted from the menu.
- If it is forcibly opened or rotated, the unit may be damaged or fail.
- If the LCD monitor is rotated by 180° towards the lens and the viewfinder is extended (when recording yourself), the LCD monitor and the viewfinder simultaneously light.

## Using the viewfinder

### Pull out the viewfinder.

The viewfinder will be activated. (If the LCD monitor is opened, the viewfinder will be deactivated.)

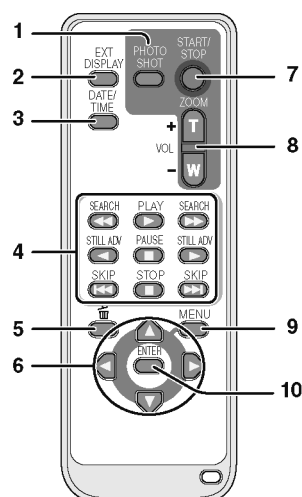


- The brightness of the viewfinder and the field of view can be adjusted.

## Using the remote control

- 1 Photoshot button [PHOTO SHOT]\*
- 2 On-screen display button [EXT DISPLAY]
- 3 Date/time button [DATE/TIME]
- 4 Playback operation buttons
- 5 Delete button [RECALL]\*
- 6 Direction buttons [▲, ▼, ◀, ▶]
- 7 Recording start/stop buttons [START/STOP]\*
- 8 Zoom/volume buttons [ZOOM, VOL]\*
- 9 Menu button [MENU]\*
- 10 Enter button [ENTER]

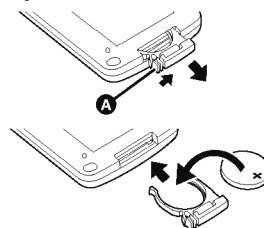
\* means that these buttons function in the same manner as the corresponding buttons on the unit.



### ■ Install a button-type battery

Install the button-type battery supplied in the remote control before using it.

- 1 While pressing the stopper **A**, pull out the battery holder.
- 2 Set the button-type battery with its (+) mark facing upward and get the battery holder back in place.



### ■ Concerning the button-type battery

- When the button-type battery runs down, replace it with a new battery (part number: CR2025). The battery is normally expected to last about 1 year, but it depends on operation frequency.
- Keep the button-type battery out of the reach of children.

#### Warning

**Danger of explosion if battery is incorrectly replaced.**

**Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.**

**Risk of fire, explosion and burns. Do not recharge, disassemble, heat above 100 °C (212 °F) or incinerate. Keep the Button-Type battery out of the reach of children. Never put Button-Type battery in mouth. If swallowed, call your doctor.**

Replace battery with Panasonic PART NO. CR2025 only. Use of another battery may present a risk of fire or explosion.












Caution: Battery may explode if mistreated.

Dispose of used battery promptly. Keep away from children.

Do not recharge, disassemble or dispose of in fire.

# Discs and cards

## Discs that can be used on this unit

Disc type	DVD-RAM 8 cm (3") Single sided/ double sided	DVD-RW 8 cm (3") Single sided/double sided		DVD-R 8 cm (3") Single sided/ double sided
	 (DVD-RAM Ver. 2.1)	 [DVD-RW Ver. 1.1/ 2X-SPEED (2X/1X)]		 (DVD-R for General Ver. 2.0)
Recording format	DVD Video Recording format (VR format)	DVD Video Recording format (VR format)	DVD-Video format (Video format)	DVD-Video format (Video format)
Characteristic	Rewritable disc	Rewritable disc	One time recording disc*1	One time recording disc
Display on the screen				
Indication in these instructions				
Functions				
• Deleting recorded scenes	●	●	—	—
• Editing on this unit	●	●	—	—
• Playback on other products*2	●*3	●*4	●*5	●*5
• Recording after finalizing	—	●	●*6	—

●: available —: not available

\*1 By formatting the disc, it can be used repeatedly.

\*2 DVD players and DVD recorders that support 8 cm (3") discs.

\*3 Playback is possible on compatible products.

\*4 Playback is possible on compatible products. (May have to be finalized on this unit.)

\*5 Must be finalized on this unit.

\*6 Un-finalize the disc.

## Discs and cards

- **Still pictures cannot be recorded on a disc with this unit.**
- When using double sided disc, you cannot record or play continuously from one side of the disc to the other. You will need to eject the disc and turn it over.
- Discs inserted in a holder, cartridge, or caddy case cannot be used. Always remove bare discs from these containers prior to use.
- It is recommended that you use Panasonic discs. Usually discs compatible with the DVD standard can be used for recording and playback with no problems. However, some commercially available discs do not meet the DVD standard for quality and performance. If you use one of these discs, you may not be able to record or playback normally. (The message "RECOMMENDED TO USE PANASONIC DISC" appears.) Refer to the following support site for information about discs that have been confirmed as compatible by Panasonic.  
**[http://panasonic.co.jp/pavc/global/cs/e\\_cam](http://panasonic.co.jp/pavc/global/cs/e_cam)** (This website is in English only.)
- Discs recorded on this unit may not be playable on other products.
- Recording on DVD-R in DVD Video Recording format is not supported.
- When using DVD-RW or DVD-R, do not perform the following, as doing so may make the disc unusable.
  - Record on a disc with other products after recording on it with this unit.
  - Record on a disc with this unit after recording on it with other products.
  - Insert an un-finalized disc in any other products.

### ■ About format types

#### **What is the DVD Video Recording format (VR format)?**

This is a format for recording on DVD discs which allows you to record and erase repeatedly and create playlists. You can record on DVD-RAM and DVD-RW in DVD Video Recording format with this unit.

#### **What is the DVD-Video format (Video format)?**

By finalizing the disc, it can be played back on most DVD players.  
You can record on DVD-RW and DVD-R in DVD-Video format with this unit.

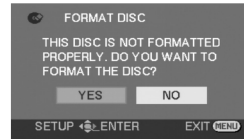
### ■ Examples of discs that cannot be used on this unit

- |   |             |               |
|---|-------------|---------------|
| ● DVD-RAM (2.6 GB) Ver. 1.0                         | ● DVD-ROM   | ● MO          |
| ● DVD-R (3.9 GB) Ver. 1.0                           | ● DVD-Video | ● MD          |
| ● DVD-R (4.7 GB) for Authoring Ver. 2.0             | ● CD-R      | ● iD          |
| ● + RW  | ● CD-RW     | ● Floppy disk |
| ● + R   | ● CD        | ● CD-ROM      |
| ● DVD-R DL  | ● LD        |               |
| ● Discs other than those with diameter of 8 cm (3") |             |               |
| ● Dual/double layer discs                           |             |               |

## When using brand-new DVD-RW

When using DVD-RW, select whether to record in DVD Video Recording format (VR format) or DVD-Video format (Video format) and then format the disc.

- 1 When a brand-new DVD-RW is inserted in this unit, the screen on the right appears. Select [YES], then press the joystick.



- 2 Select format type, then press the joystick.

**VIDEO:** DVD-Video format


**VR:** DVD Video Recording format



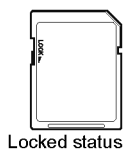
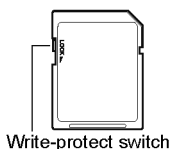
- 3 When the confirm screen appears, select [YES], then press the joystick.

- To change the format type, format the disc again.  
If the disc is formatted, then all the data recorded on the disc will be erased.

## Cards that you can use with this unit

Card type	SD Memory Card	miniSD™ Card
Capacity	8 MB, 16 MB, 32 MB, 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB (Maximum)	32 MB, 64 MB, 128 MB, 256 MB, 512 MB
Indication in these instructions		

- **Motion pictures cannot be recorded on an SD card with this unit.**
- Please confirm the latest information on the following website. (This website is in English only.)  
**[http://panasonic.co.jp/pavc/global/cs/e\\_cam](http://panasonic.co.jp/pavc/global/cs/e_cam)**
- For the purposes of these operating instructions, SD Memory Card and miniSD™ Card are referred to as the “SD card”.
- This unit supports SD cards formatted in FAT12 system and FAT16 system based on SD Memory Card Specifications.
- Use this unit to format SD cards. If an SD card is formatted on other products (such as a computer), the time spent for recording may become longer and you may not be able to use the SD card.
- We recommend that you use a Panasonic brand SD card.
- Be sure to insert miniSD™ Cards in the dedicated card adaptor before use. Inserting a card in this unit without the adaptor may damage the unit or the card.
- Do not insert an empty card adaptor in this unit. Do not leave the adaptor in this unit while inserting or removing miniSD™ Cards. This may cause the unit to malfunction.
- When the write-protect switch on SD Memory Card is locked, no recording, deletion or editing will be possible on the card.

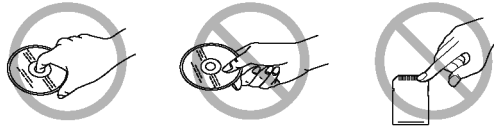


- Keep the memory card out of reach of children to prevent swallowing.
- MultiMediaCards cannot be used on this unit.

## Disc and card handling

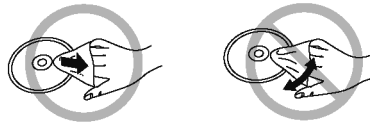
### ■ How to hold a disc or card

Do not touch the recorded surface or the terminal surface.



### ■ If there is dirt or condensation on the disc

Wipe with a damp cloth and then wipe dry.



### ■ Handling precautions

- Be careful about scratches and dirt.
- Do not attach labels or stickers to discs. (This may cause disc warping and un-balanced rotation, rendering it unusable.)
- Write on the label side of the disc only with a soft, oil-based felt pen. Do not use ballpoint pens or other hard writing implements.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not expose the terminals of the card to water, garbage or dust.
- Do not drop, stack, or impact discs. Do not place objects on them.
- Do not use the following discs:
  - Discs with exposed adhesive from removed stickers or labels.
  - Discs that are badly warped or cracked.
  - Irregularly shaped discs, such as heart shapes.



- Do not place in the following areas:
  - In direct sunlight.
  - In very dusty or humid areas.
  - Near a heater.
  - Locations susceptible to significant difference in temperature (condensation can occur).
  - Where static electricity or electromagnetic waves occur.
- To protect discs and cards, return them to their cases when you are not using them.



## Cautions for use

### About this unit

- The unit, disc and card become warm after long operation, but this is not a malfunction.

#### **Keep the unit away from magnetized products/mobile phones, microwave ovens, TVs and video game products.**

- If you use the unit on or near a TV, the images or sound may be disturbed due to electromagnetic wave radiation.
- Do not use near cell phone because doing so may cause noise to adversely affect the picture and sound.
- Recordings may be damaged, or images may be distorted, by the strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation generated by digital circuits including microprocessors may adversely affect the unit, causing the disturbance of images and sounds.
- If the unit is affected by such products and does not function properly, turn off the unit and detach the battery or AC adaptor. Then connect the battery or AC adaptor again.

#### **Do not use the unit near radio transmitters or high-voltage cables.**

- If you record pictures near radio transmitters or high-voltage cables, recorded images or sounds may be adversely affected.

#### **Make sure to use the supplied cords and cables. If you use optional accessories, use the cords and the cables supplied with them.**

#### **Do not extend the cords and the cables.**

#### **Do not spray insecticides or volatile chemicals onto the unit.**

- If the unit is sprayed with such chemicals, its body may be marred and the surface finish may peel off.
- Do not leave rubber or plastic products in contact with the unit for a long time.

#### **When you use the unit in a sandy or dusty place such as a beach, do not let sand or fine dust get into the body and terminals of the unit.**

Also, keep the unit away from sea water.

- Sand or dust may damage the unit. (Care should be taken when inserting and removing a disc or a card.)
- If sea water splashes onto the unit, wipe off the water with a well wrung cloth. Then wipe the unit again with a dry cloth.

#### **When carrying the unit, do not drop or bump it.**

- A strong impact can break the unit's casing, causing it to malfunction.

#### **Do not use benzine, paint thinner or alcohol for cleaning the unit.**

- Before cleaning, detach the battery or pull out the AC cable from the AC outlet.
- The camera body may be discolored and the surface finish may peel off.
- Wipe the unit with a soft dry cloth to remove dust and fingerprints. To remove stubborn stains, thoroughly wring a cloth that has been soaked in a neutral detergent diluted with water and wipe the unit with it. Afterwards, wipe it with a dry cloth.
- When you use a chemical dust cloth, follow the instructions that came with the cloth.

#### **Do not touch the laser pickup lens.**

- If you touch the laser pickup lens directly it may cause malfunctions.

#### **Do not use a commercial available 8 cm (3") CD lens cleaner.**

- Using 8 cm (3") CD lens cleaner could cause this unit to malfunction.

#### **Do not use the unit for surveillance purposes or other business uses.**

- If you use the unit for a long time, heat will build up inside it and this may cause a malfunction.
- This unit is not intended for business use.

#### **When you are not going to use the unit for an extended time**

- When storing the unit in a cupboard or cabinet, it is recommended that you place a desiccant (silica gel) in with it.

### **About the battery**

The battery used in this unit is a rechargeable lithium-ion battery. It is susceptible to humidity and temperature and the effect increases the more the temperature rises or falls. In cold areas, the full charge indication may not appear or the low battery indication may appear about 5 minutes after starting use. At high temperatures, the protection function may be triggered, making it impossible to use the unit.

#### **Be sure to detach the battery after use.**

- If the battery is left attached, a minute amount of current continues to flow even if the unit's power is off. Keeping the unit in this state may result in over discharge of the battery. This may result in you not being able to use the battery even after it is charged.
- The battery should be stored in the vinyl bag so metal does not come into contact with the terminals.
- The battery should be stored in a cool place free from humidity, with as constant temperature as possible. (Recommended temperature: 15 °C to 25 °C (59 °F to 77 °F), Recommended humidity: 40% to 60%)
- Extremely high temperatures or low temperatures will shorten the life of the battery.
- If the battery is kept in high-temperature, high-humidity, or oily-smoky places, the terminals may rust and cause malfunctions.
- To store the battery for a long period of time, we recommend you charge it once every year and store it again after you have completely used up the charged capacity.
- Dust and other matter attached to the battery terminals should be removed.

#### **Prepare spare batteries when going out for recording.**

- Prepare batteries appropriate to 3 to 4 times the period during you want to record pictures in. In cold places such as a ski resort, the period during which you can record pictures is shortened.
- When you travel, do not forget to bring an AC adaptor so that you can recharge the batteries at your destination.

#### **If you drop the battery accidentally, check to see if the terminals are damaged.**

- Attaching a battery with damaged terminals can damage the unit or AC adaptor.

#### **Do not throw old battery into fire.**

- Heating a battery or throwing it into a fire may result in an explosion.
- If the operating time is very short even after the battery has been recharged, the battery has worn out. Please purchase a new battery.

### About the AC adaptor

- If the battery is warm, charging requires more time than normal.
- If the temperature of the battery is extremely high or extremely low, the CHARGE lamp may continue flashing, and the battery may not be charged. Wait until the appropriate temperature is restored before charging the battery again. If the battery still fails to charge, something may be wrong with the battery or AC adaptor. Contact your dealer.
- If you use the AC adaptor near a radio, radio reception may be disturbed. Keep the AC adaptor 1 m (3.3 feet) or more away from the radio.
- When using the AC adaptor, it may generate whirring sounds. However, this is normal.
- After use, be sure to disconnect the AC adaptor. (If it is left connected, a minute amount of current is consumed.)
- Always keep the electrodes of the AC adaptor and battery clean.

**Put this unit near the outlet to make it easy for the interrupting device (plug) to reach it.**

### About the disc

- **If there is dust, a scratch, or dirt on disc or if it is warped, the following phenomena may occur:**
  - Block noise in playback image
  - Momentary stop of playback image
  - Sound interrupted during playback, or abnormal sound
  - Thumbnail display with shades of blue and white
  - Disc cannot correctly be recognized
  - Delay between video and audio
- When recording images, this unit may avoid the portions of disc where recording is not possible, due to dust, scratches, etc. (It will pause at such a portion and automatically restart recording.)

**When the access lamp is illuminated (during access to the disc), do not open the disc cover, turn off the power, or cause any vibrations or impacts.**



### DVD-R

- For optimum recording on DVD-R disc, this unit writes control data to the disc in order to automatically make adjustments when it is inserted and ejected accompanying recording. If the disc has no area for control data to be written, recording may not be possible. To prevent this, do not insert a DVD-R which has been recorded on more than 50 times.
- Do not insert a DVD-R recorded on this unit that has not been finalized into a recordable device, such as a DVD recorder. The recorded data may be damaged.

### About the SD card

- The memory capacity indicated on the label of an SD card is the total of the capacity for copyright protection and management and the capacity which can be used on the unit, a computer etc.
- During prolonged use, the unit's surfaces and the SD card will heat up slightly. This is normal.

**When inserting or removing the SD card, always set the OFF/ON switch to OFF.**

**While this unit accesses the SD card (while  or  is being displayed/the access lamp is lit), do not remove the SD card, operate the mode dial, turn off the power or shake or impact the unit.**

### LCD monitor/viewfinder

- When the LCD monitor gets dirty, wipe it with a dry soft cloth.
- In a place with drastic temperature changes, condensation may form on the LCD monitor. Wipe it with soft dry cloth.
- When the unit has become very cold, for example due to storage in a cold area, its LCD monitor will be slightly darker than usual immediately after the power is turned on. The normal brightness will be restored when the unit's internal temperature rises.

Extremely high precision technology is employed to produce the LCD Monitor screen featuring a total of approximately 123,000 pixels. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

Extremely high precision technology is employed to produce the viewfinder screen featuring a total of approximately 123,000 pixels. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

### About condensation

When condensation forms on the unit, the lens will cloud up and the unit may not work properly. Make every effort to ensure that condensation does not form. If it does form, take the actions described below.

### Causes of condensation

**Condensation takes place when the ambient temperature or humidity is changed as follows.**

- When this unit is brought inside from the cold (e.g. a ski slope) to a warm room.
- When this unit is moved from an air-conditioned car to outside.
- When a cold room has been warmed up quickly.
- When cool wind from an air conditioner is directly blown onto this unit.
- After summer afternoon showers of rain.
- When this unit is in a very humid place where the air is thick with steam. (e.g. a heated swimming pool)

**When this unit is taken to a location with a significant temperature difference such as from a cold place to a hot place.**

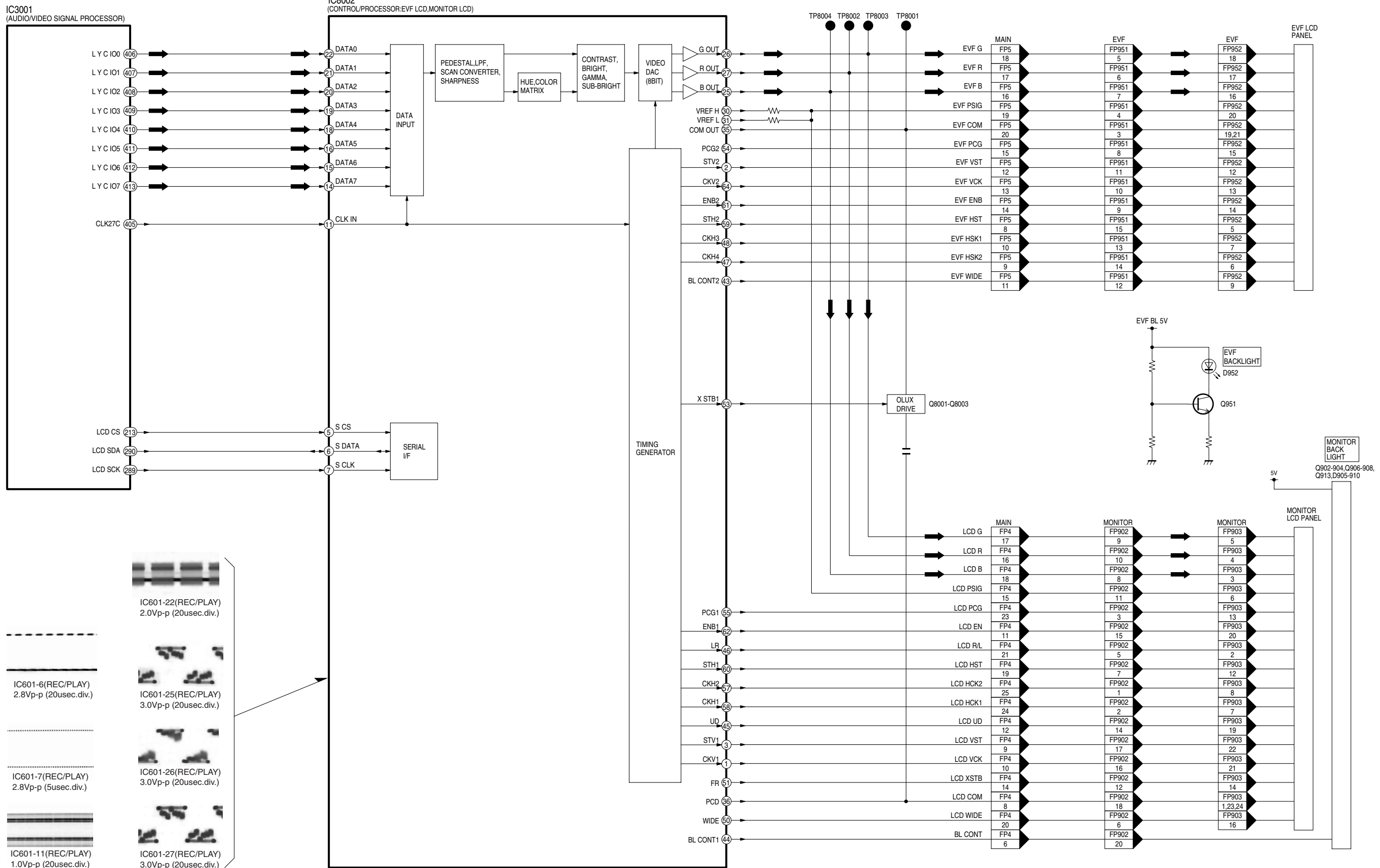
If, for example, you have used this unit for recording on a ski slope and are taking it into a heated room, place the unit inside a plastic bag, remove as much of the air from inside the bag as possible, then seal the bag. Leave the unit for about an hour in the room so the temperature of the unit is close to the ambient temperature of the room, then use it.

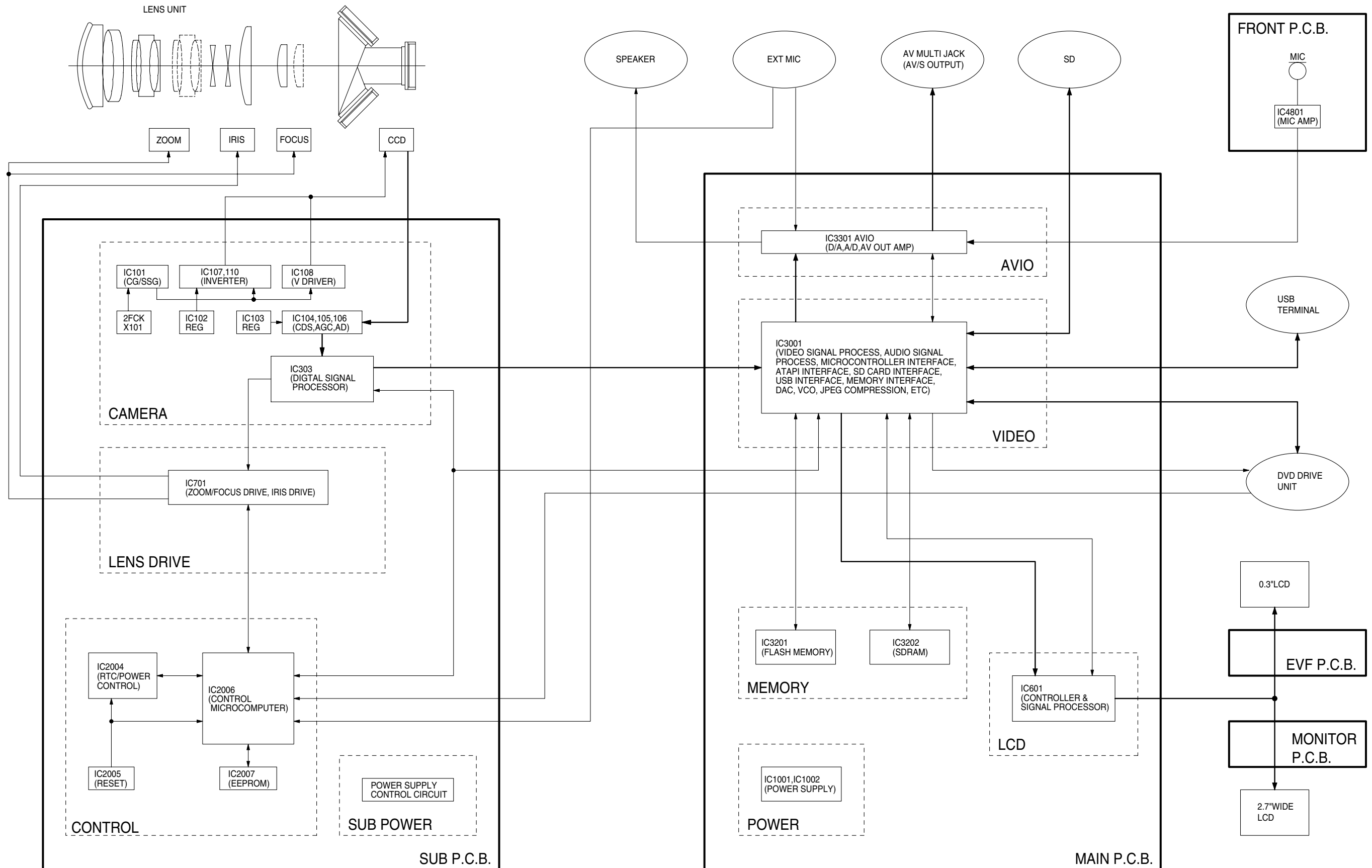
**What to do with the lens is fogged up.**

Remove the battery or AC adaptor and leave the unit for about 1 hour. When the unit becomes close to the ambient temperature, the fog disappears naturally.



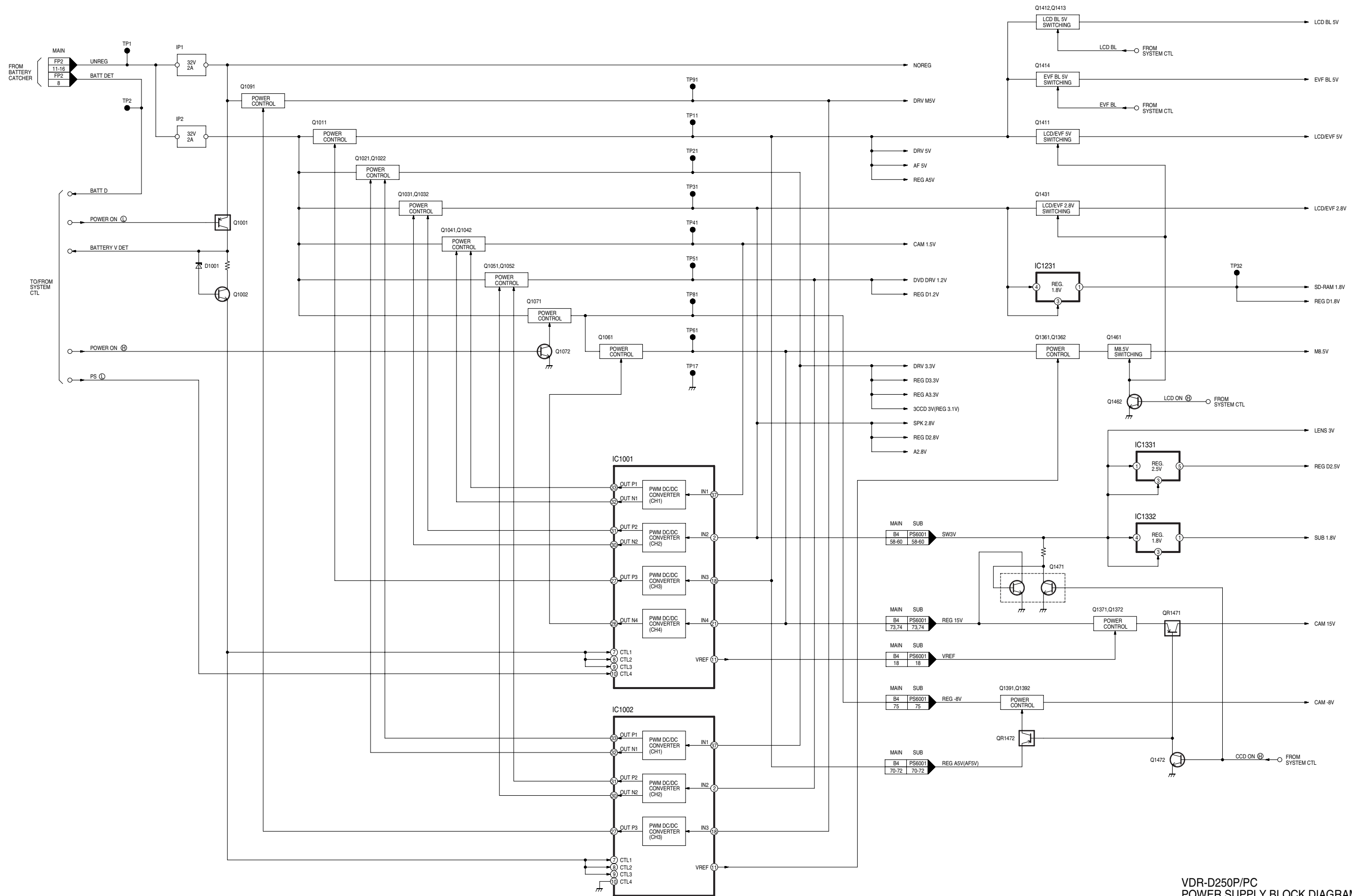






VDR-D250P/PC  
OVERALL BLOCK DIAGRAM

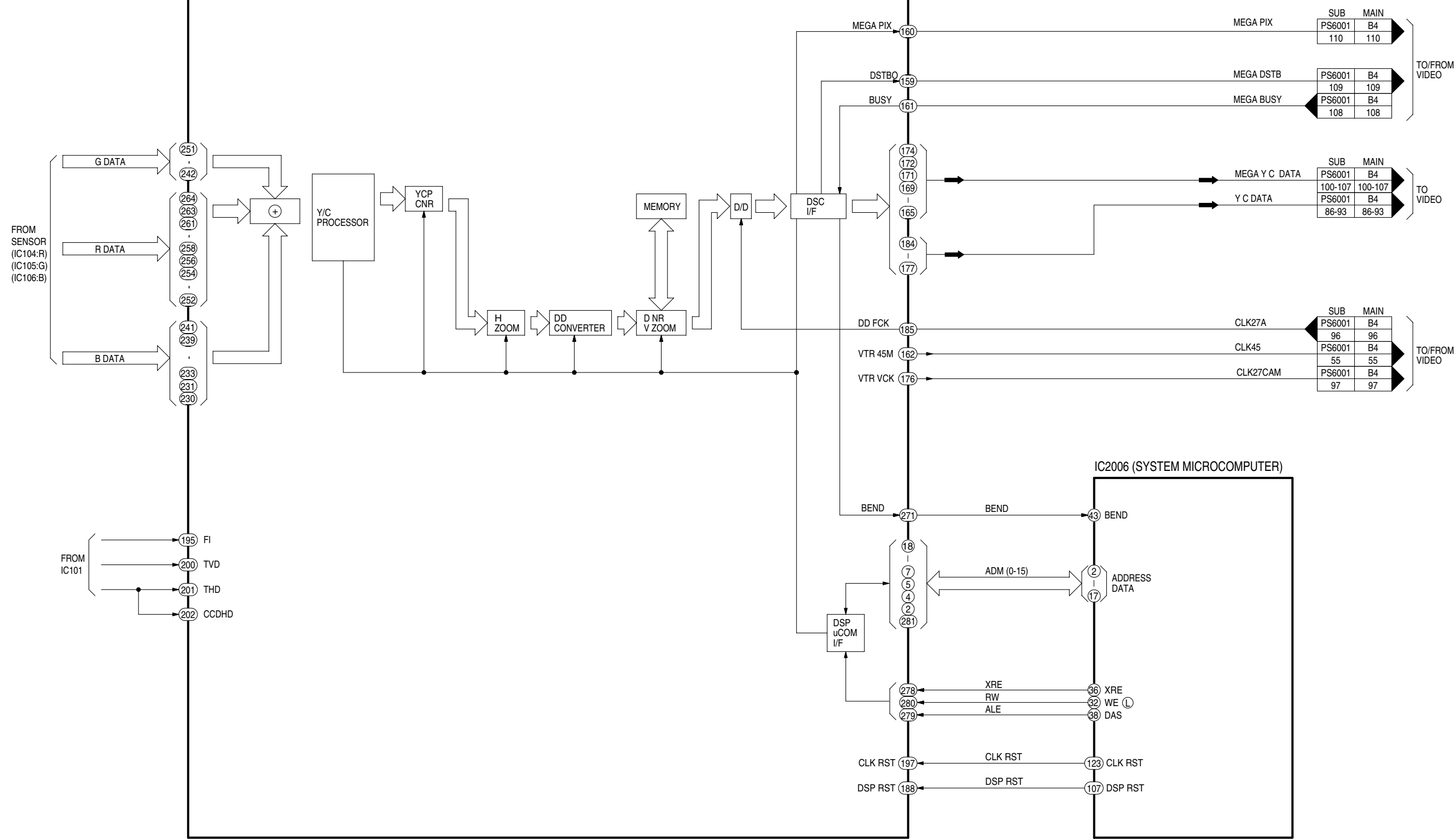




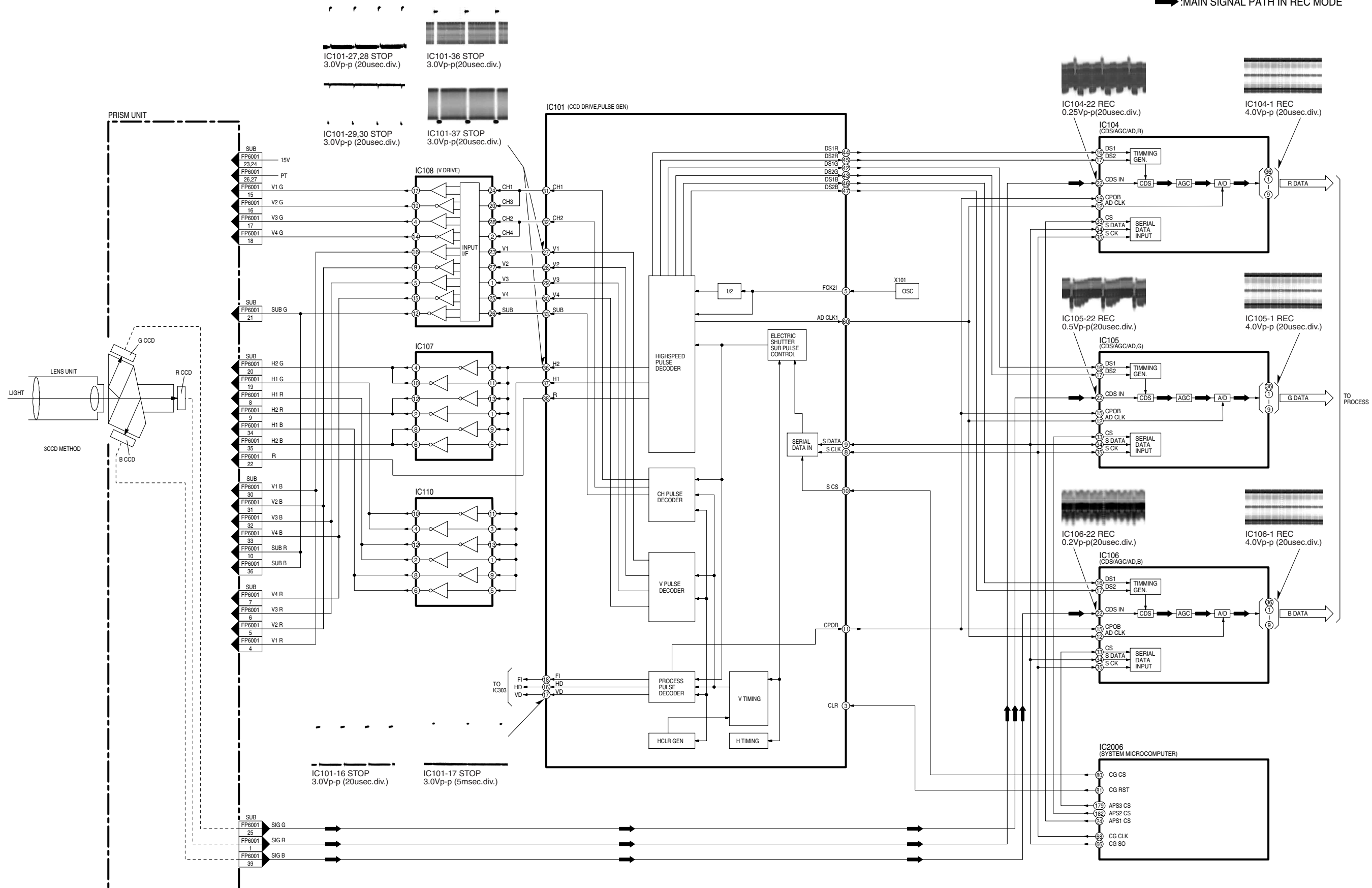
VDR-D250P/PC  
POWER SUPPLY BLOCK DIAGRAM

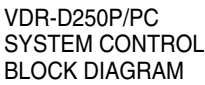
➡:MAIN SIGNAL PATH IN REC MODE

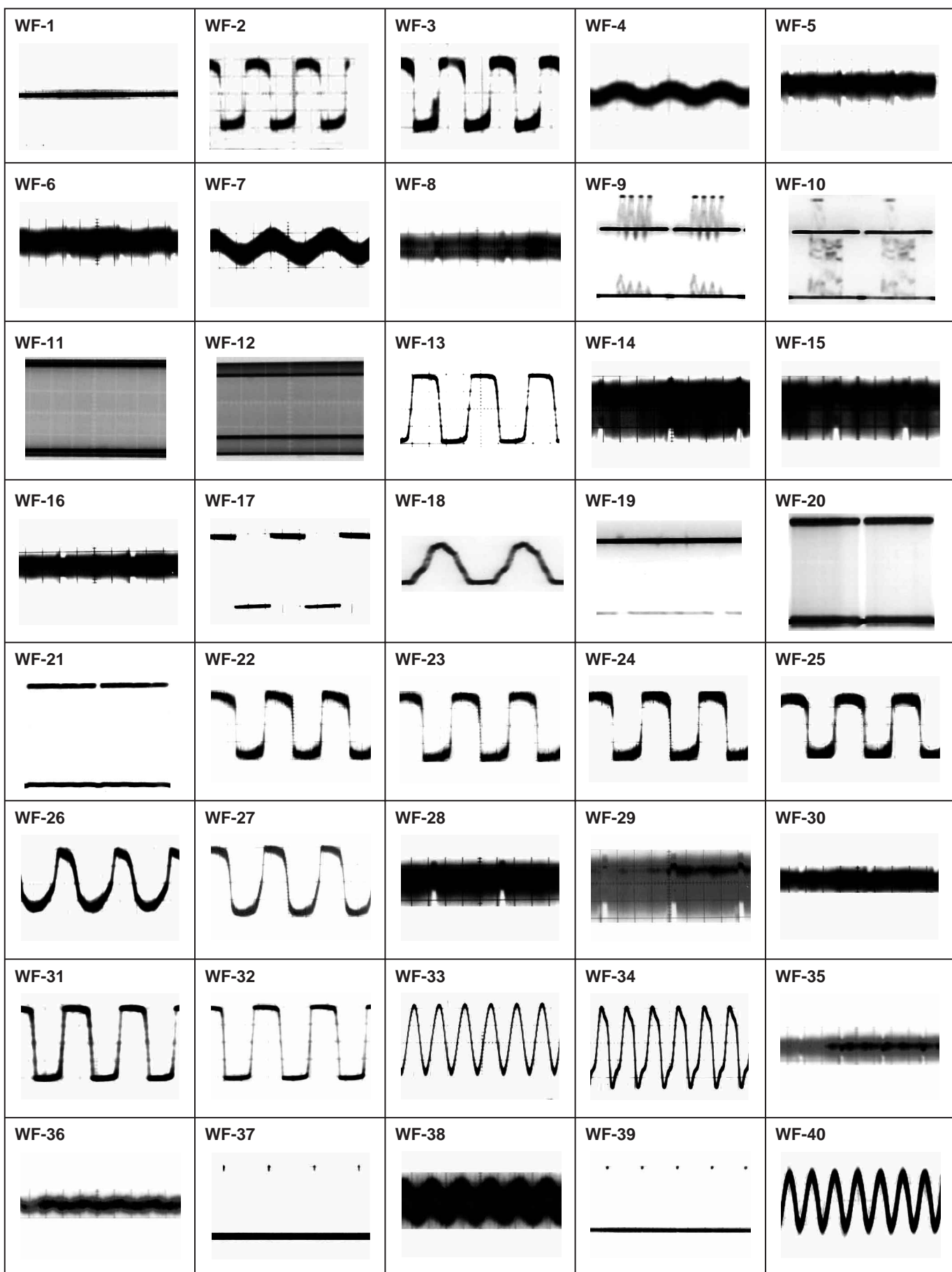
IC303 (DIGITAL SIGNAL PROCESSOR)

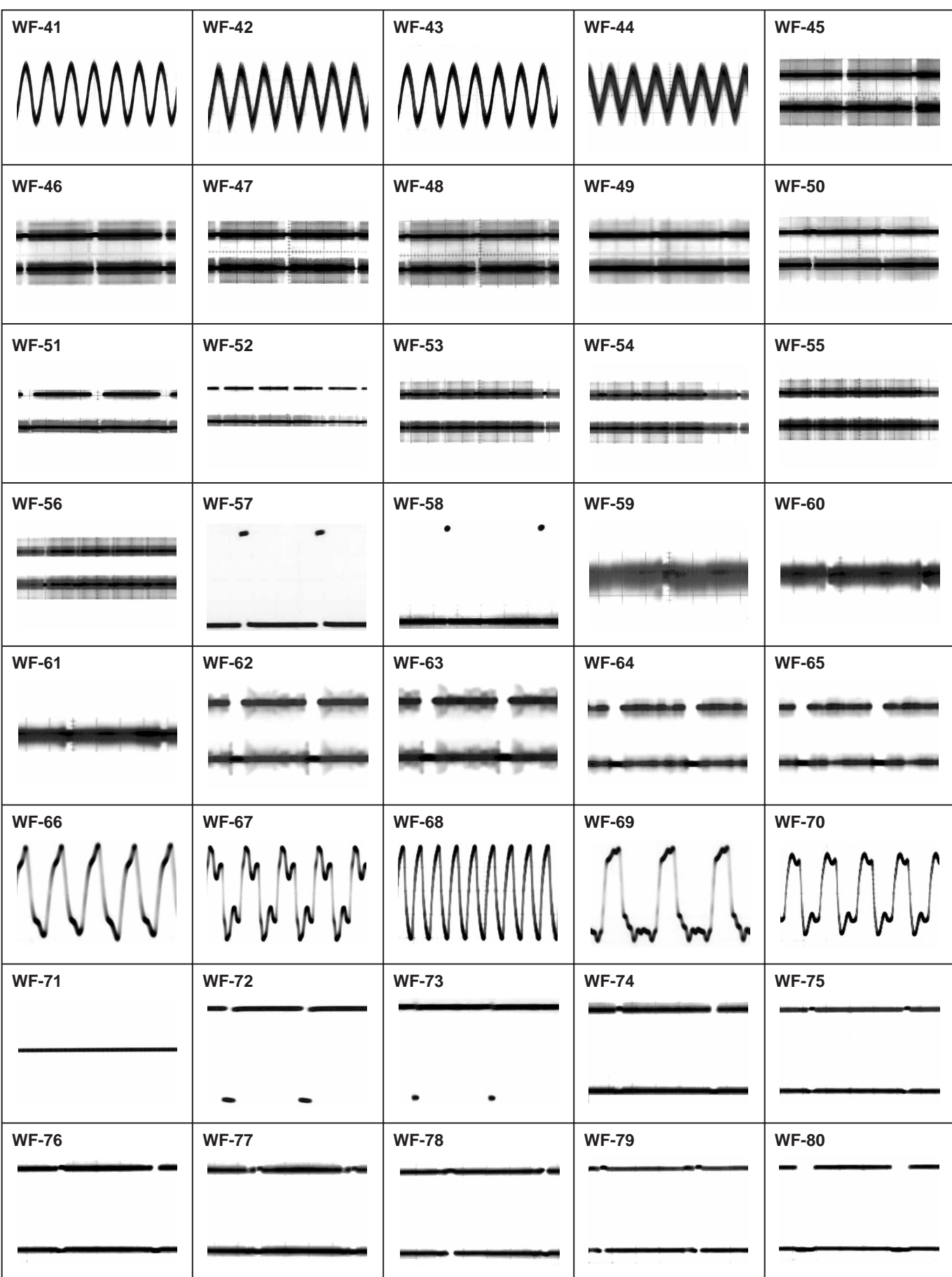


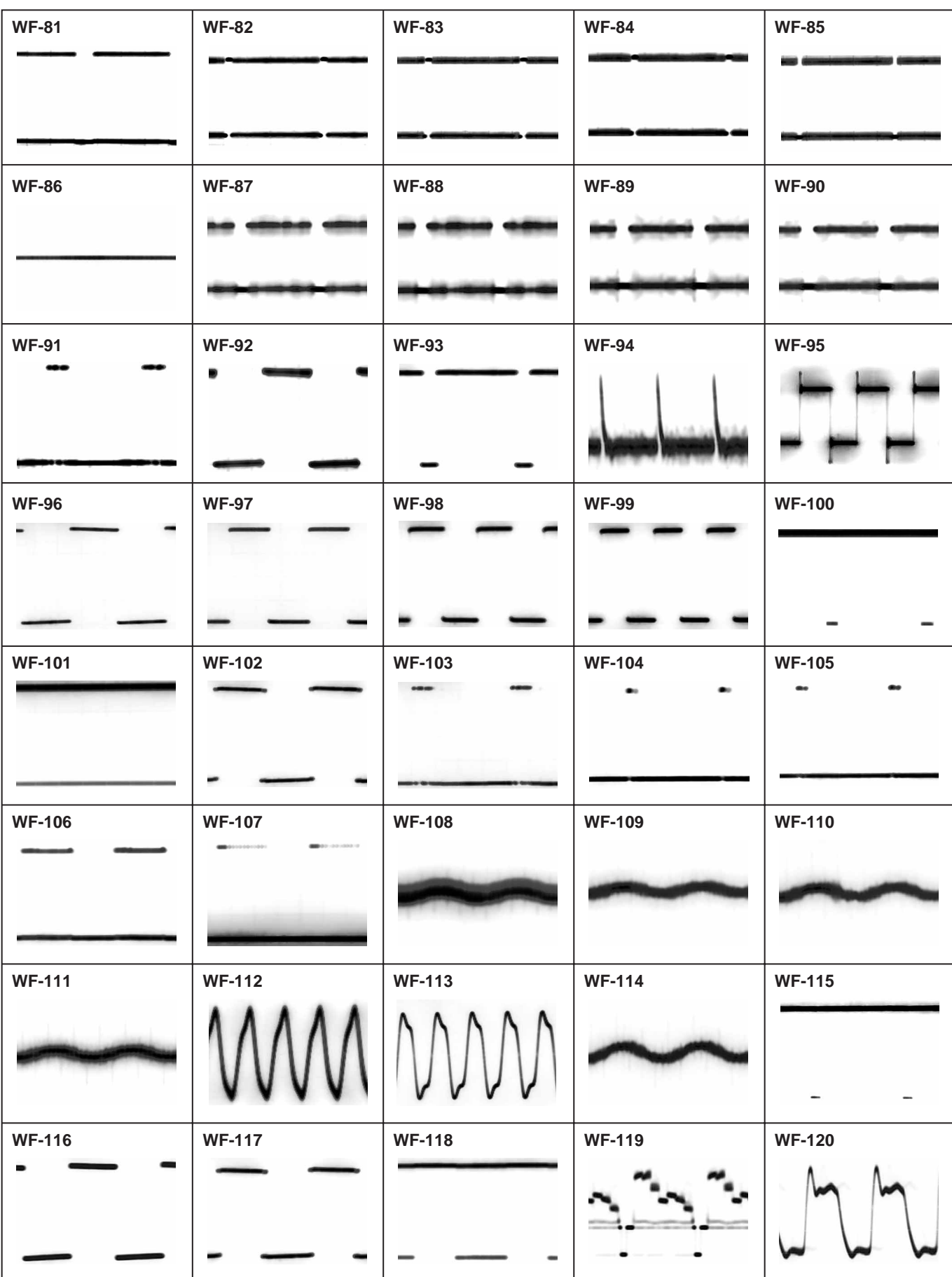
➡ :MAIN SIGNAL PATH IN REC MODE

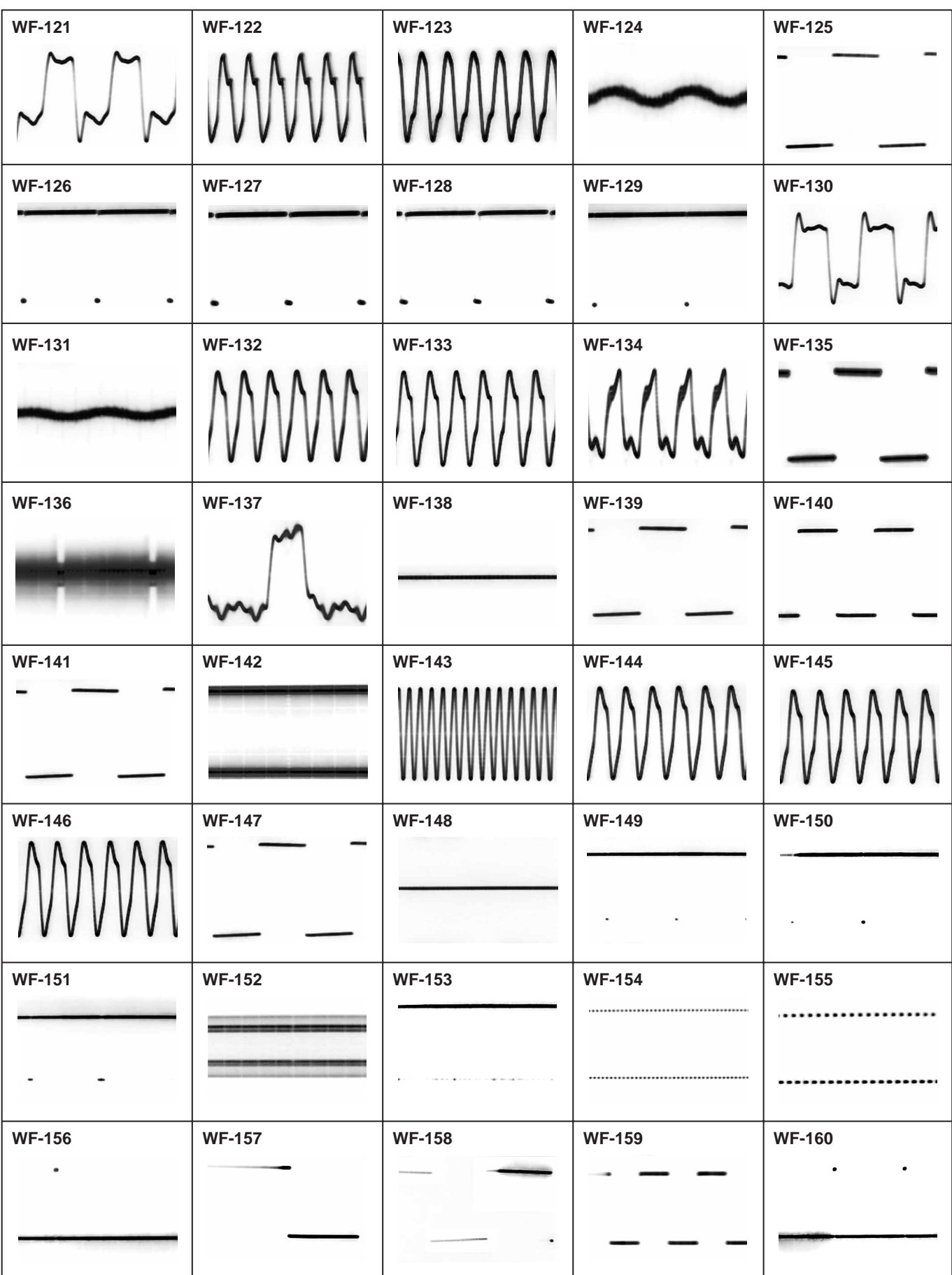




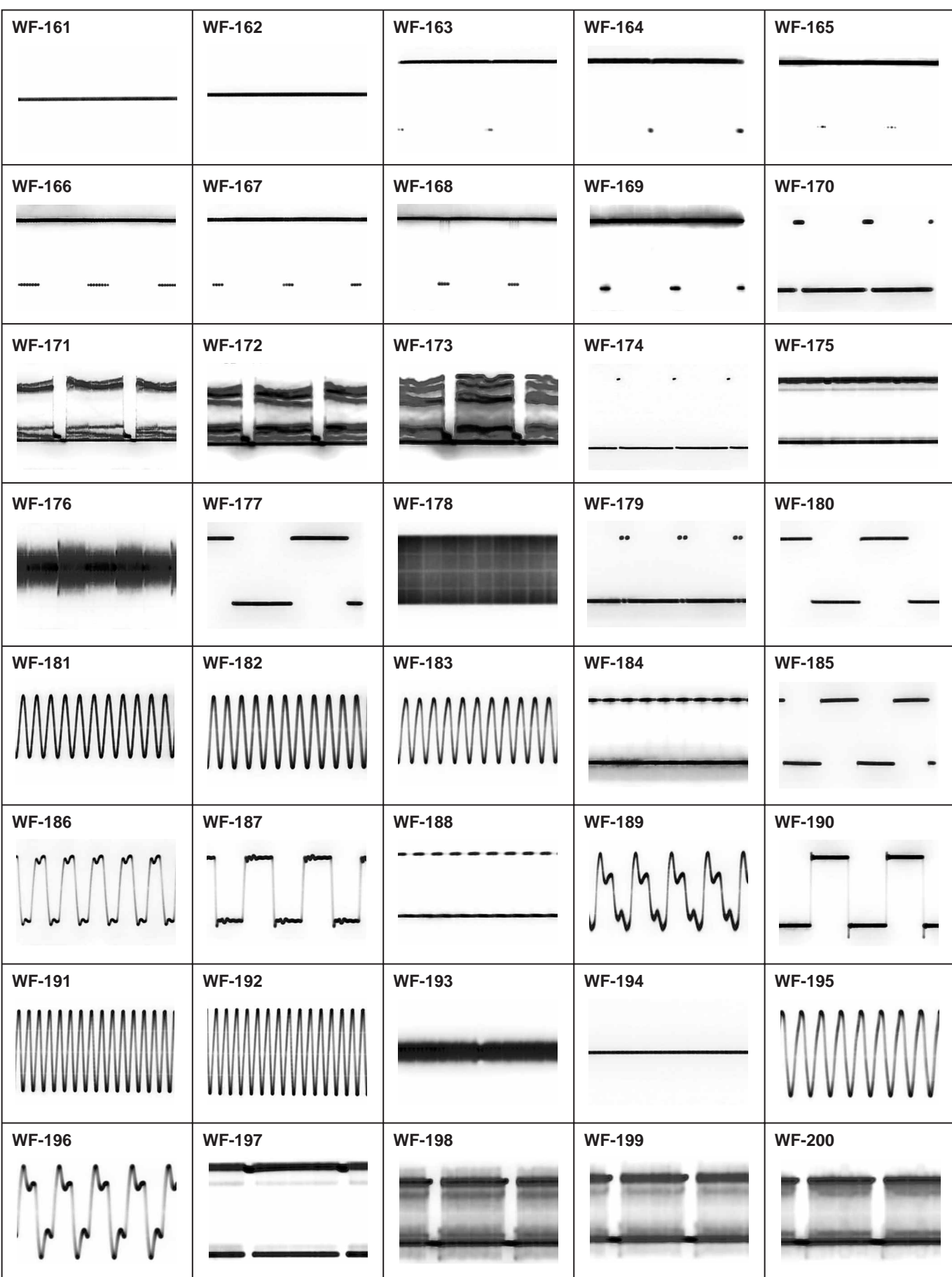


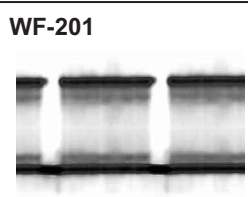
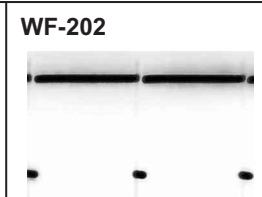
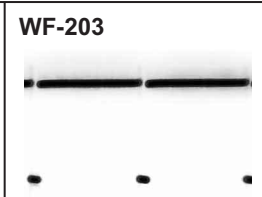
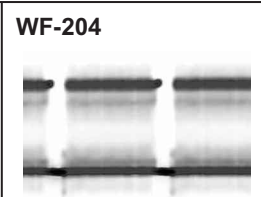
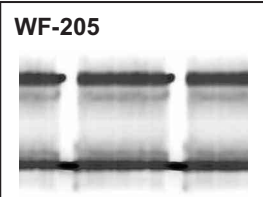
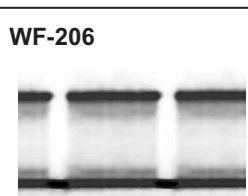
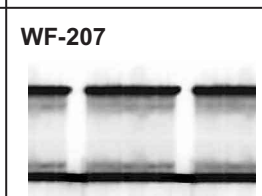
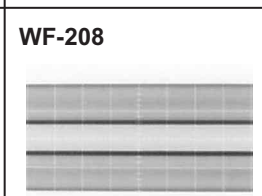
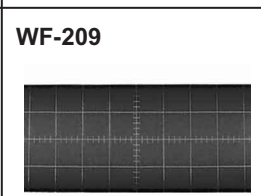
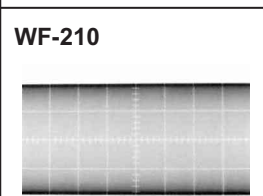
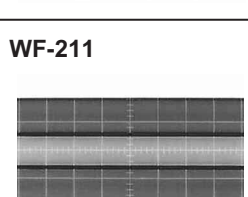
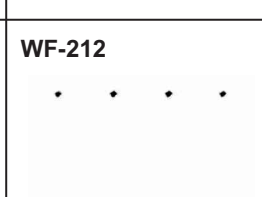
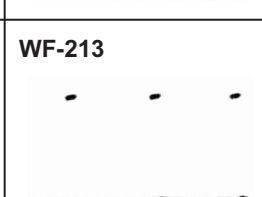
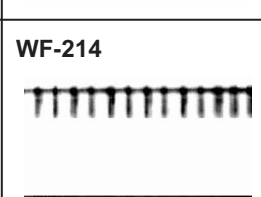
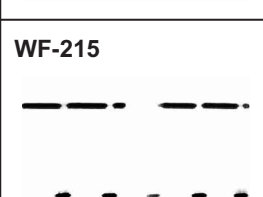
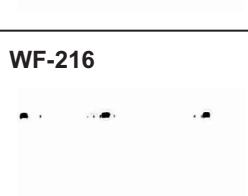
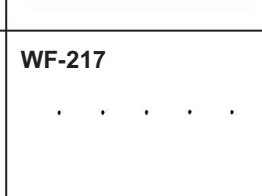
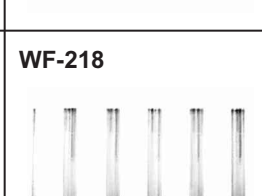

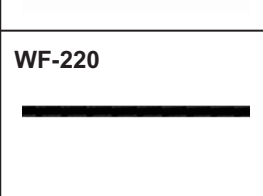
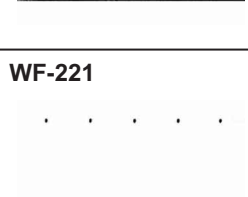
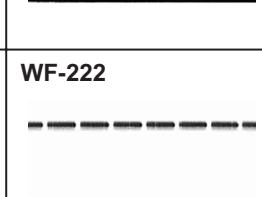
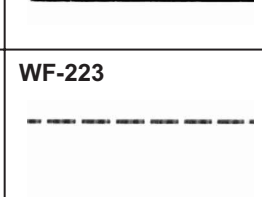
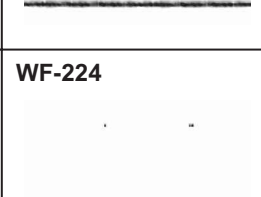
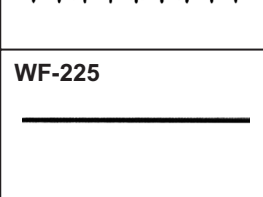
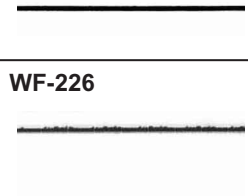
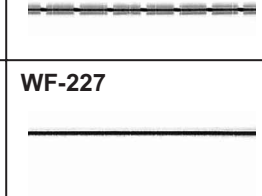
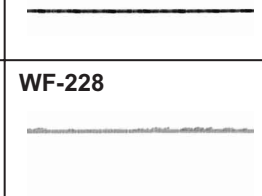
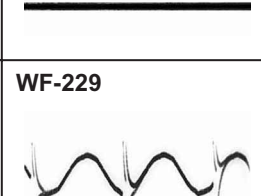
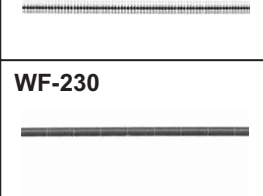
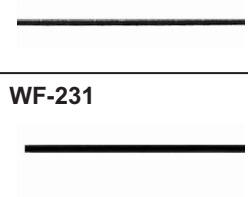
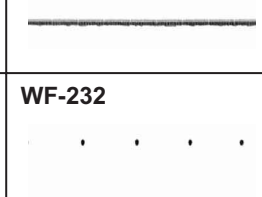
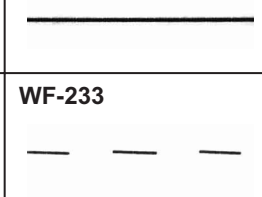
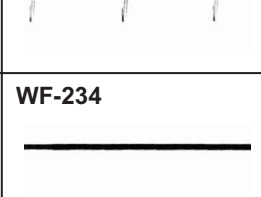
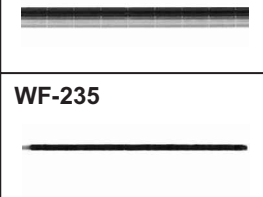
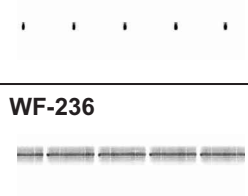


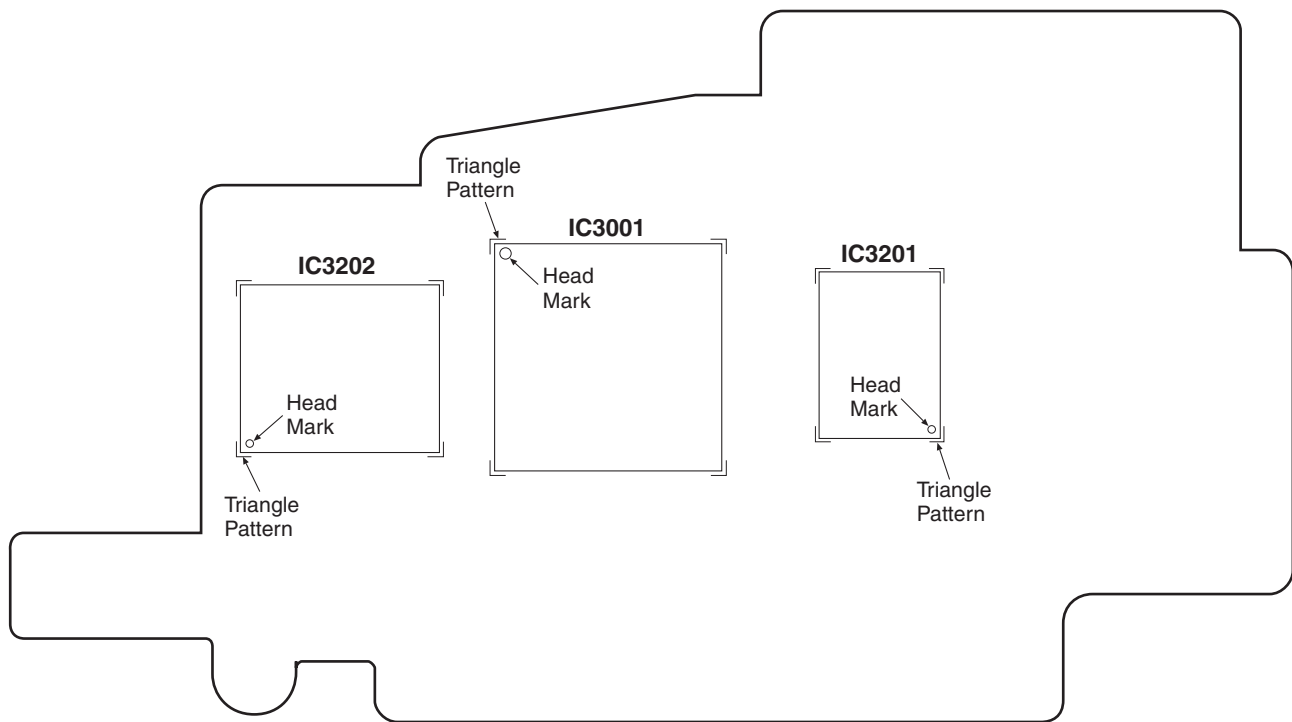




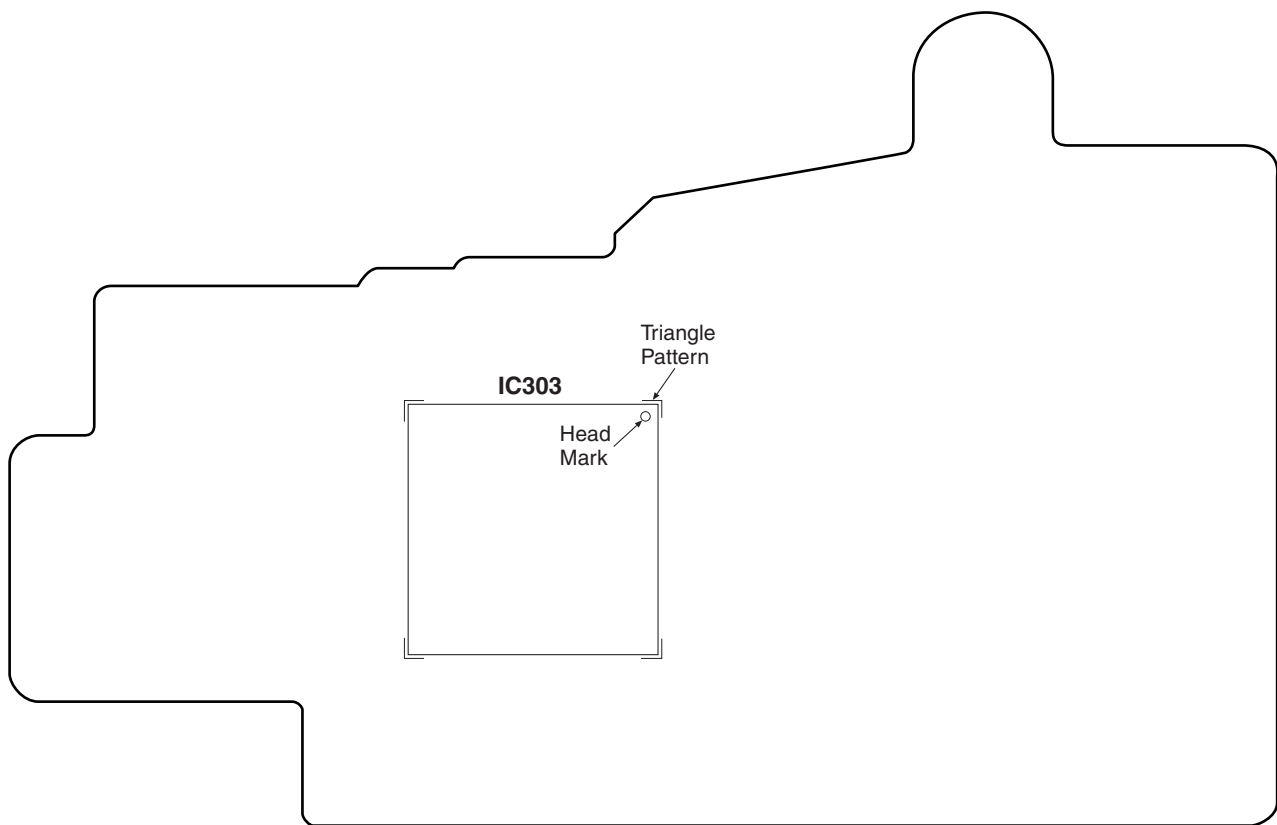




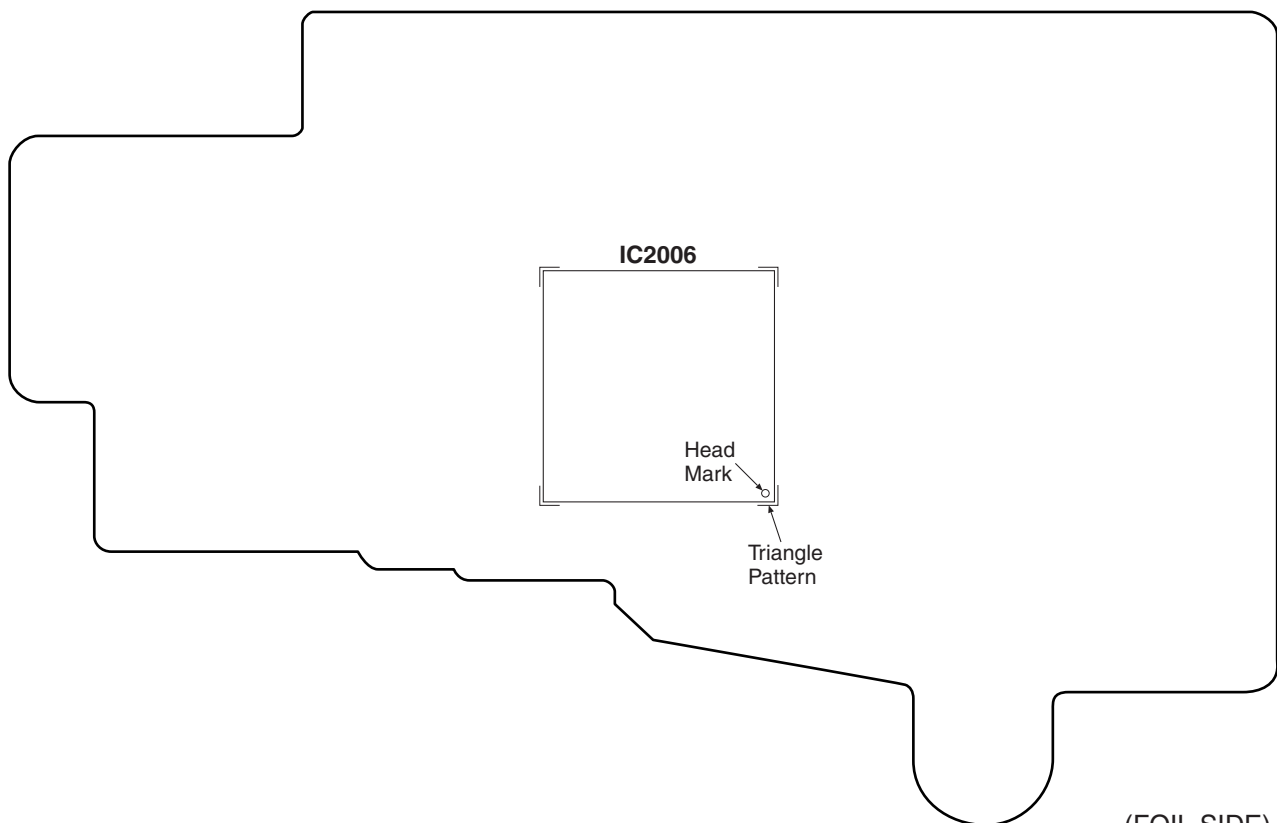
WF-201 	WF-202 	WF-203 	WF-204 	WF-205 
WF-206 	WF-207 	WF-208 	WF-209 	WF-210 
WF-211 	WF-212 	WF-213 	WF-214 	WF-215 
WF-216 	WF-217 	WF-218 	WF-219 	WF-220 
WF-221 	WF-222 	WF-223 	WF-224 	WF-225 
WF-226 	WF-227 	WF-228 	WF-229 	WF-230 
WF-231 	WF-232 	WF-233 	WF-234 	WF-235 
WF-236 				



(COMPONENT SIDE)



(COMPONENT SIDE)



(FOIL SIDE)

ICS DC VOLTAGE CHART (SP MODE)																					
Ref. No.	IC2001						IC2002														
MODE	1	2	3	4	5		1	2	3	4											
STOP	0	8.0	3.1	-	8.0		8.0	8.0	-	0											
PLAY	0	8.0	3.1	-	8.0		8.0	8.0	-	0											
REC	0	8.0	3.1	-	8.0		8.0	8.0	-	0											
Ref. No.	IC2004																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
STOP	0	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1	
PLAY	0	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1	
REC	1.4	2.9	1.4	0	2.8	2.8	2.8	-	-	3.1	0	2.9	0	0	0	0	2.9	-	0	3.1	
Ref. No.	IC2004													IC2005							
MODE	21	22	23	24	25	26	27	28	29	30	31	32		1	2	3	4				
STOP	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0				
PLAY	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0				
REC	3.1	0	0	0	0.1	3.0	0.6	0.3	2.9	-	-	-		2.9	2.5	-	0				
Ref. No.	IC2006																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
STOP	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8	
PLAY	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8	
REC	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	2.9	2.8	
Ref. No.	IC2006																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
STOP	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-	
PLAY	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-	
REC	-	0	2.8	2.8	2.8	-	2.8	2.9	0	0	2.5	2.8	1.9	0	-	2.8	0	0	0	-	
Ref. No.	IC2006																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
STOP	0	0.1	-	0	0	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-	
PLAY	0	0.1	-	0	-	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-	
REC	0	0.1	-	0	-	0	0	0	-	2.8	0	2.8	2.8	2.8	-	-	-	-	-	-	
Ref. No.	IC2006																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
STOP	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	1.9	2.8	2.8	
PLAY	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	1.9	2.8	2.8	
REC	2.8	2.8	0	0	0	1.5	-	2.8	0	2.8	0	2.8	1.9	2.8	0	1.8	0	0	2.8	2.8	
Ref. No.	IC2006																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
STOP	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0	
PLAY	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0	
REC	2.8	2.5	0	0	-	2.8	2.8	2.8	-	1.9	1.9	0	2.9	0.3	1.9	-	-	2.7	0.1	0	
Ref. No.	IC2006																				
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
STOP	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0	
PLAY	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0	
REC	0	2.5	0	1.9	-	0	1.7	0	2.9	-	2.8	2.8	0	0	-	-	1.9	2.8	1.9	0	
Ref. No.	IC2006																				
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	
STOP	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0	
PLAY	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0	
REC	0	0	2.8	1.9	0	0	2.8	2.8	-	2.8	1.3	1.4	1.7	-	-	0	0	2.5	2.9	0	
Ref. No.	IC2006																				
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	
STOP	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-	
PLAY	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-	
REC	2.8	2.0	2.8	2.8	2.8	2.8	-	1.4	2.4	1.4	-	-	-	2.8	2.8	2.8	2.8	2.8	0	-	
Ref. No.	IC2006																				
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	
STOP	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	0	
PLAY	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	2.8	
REC	-	-	-	-	2.9	2.9	2.8	-	2.8	0	0	0	2.8	0	2.9	2.6	2.8	2.8	2.8	0	



# Check Point of the IC303

CSP IC		Check Point		WF NO.		Remarks	CSP IC		Check Point		WF NO.		Remarks
Pin	Name						Pin	Name					
1	TEST	_____	___	___			61	NC	_____	___	___		
2	MAD B14	_____	___	___			62	VSS	_____	___	___		
3	VSS	_____	___	___			63	NC	_____	___	___		
4	MAD B13	_____	___	___			64	VDD VTR	_____	___	___		
5	MAD B12	_____	___	___			65	VSS	_____	___	___		
6	VDD CPU	_____	___	___			66	NC	_____	___	___		
7	MAD B11	_____	___	___			67	NC	_____	___	___		
8	MAD B10	_____	___	___			68	VSS	_____	___	___		
9	MAD B9	_____	___	___			69	VDDI	_____	___	___		
10	MAD B8	_____	___	___			70	VSS	_____	___	___		
11	MAD B7	_____	___	___			71	VDD VTR	_____	___	___		
12	MAD B6	_____	___	___			72	VSS	_____	___	___		
13	MAD B5	_____	___	___			73	VDD VTR	_____	___	___		
14	MAD B4	_____	___	___			74	VSSD	_____	___	___		
15	MAD B3	_____	___	___			75	VSSD	_____	___	___		
16	MAD B2	_____	___	___			76	VDD 15D	_____	___	___		
17	MAD B1	TP3003	B-3	WF-218	MAIN P.C.B. (C)		77	VDD 15D	_____	___	___		
18	MAD B0	_____	___	___			78	DTMB	_____	___	___		
19	MSPA14	_____	___	___			79	VSSD	_____	___	___		
20	VSS	_____	___	___			80	VSSD	_____	___	___		
21	VDD CPU	_____	___	___			81	NC	_____	___	___		
22	MSPA13	_____	___	___			82	VDD 15D	_____	___	___		
23	MSPA12	_____	___	___			83	VDD 15D	_____	___	___		
24	MSPA11	_____	___	___			84	NC	_____	___	___		
25	MSPA10	_____	___	___			85	VSSD	_____	___	___		
26	MSPA9	_____	___	___			86	VSSD	_____	___	___		
27	MSPA8	_____	___	___			87	NC	_____	___	___		
28	MSPA7	_____	___	___			88	VSS	_____	___	___		
29	VDDI	_____	___	___			89	VDD VTR	_____	___	___		
30	VSS	_____	___	___			90	DVM	_____	___	___		
31	MSPA6	_____	___	___			91	VSS	_____	___	___		
32	MSPA5	_____	___	___			92	VDD 25D	_____	___	___		
33	MSPA4	_____	___	___			93	VDD 25D	_____	___	___		
34	MSPA3	_____	___	___			94	VDD VTR	_____	___	___		
35	MSPA2	_____	___	___			95	VDDI	_____	___	___		
36	MSPA1	_____	___	___			96	TMODE5	_____	___	___		
37	MSPA0	_____	___	___			97	TMODE4	_____	___	___		
38	VSS	_____	___	___			98	TMODE3	_____	___	___		
39	VSS	_____	___	___			99	TMODE2	_____	___	___		
40	VSS	_____	___	___			100	TMODE1	_____	___	___		
41	VDD VTR	_____	___	___			101	TMODE0	_____	___	___		
42	VDD VTR	_____	___	___			102	TSTO50	_____	___	___		
43	VDD VTR	_____	___	___			103	TSTO49	_____	___	___		
44	SCANNT	_____	___	___			104	TSTO48	_____	___	___		
45	TRST IN4	_____	___	___			105	TSTO47	_____	___	___		
46	TRST IN3	_____	___	___			106	TSTO46	_____	___	___		
47	TRST IN2	_____	___	___			107	TSTO45	_____	___	___		
48	TRST IN1	_____	___	___			108	TSTO44	_____	___	___		
49	TEST IN0	_____	___	___			109	TSTO43	_____	___	___		
50	NC	_____	___	___			110	TSTO42	_____	___	___		
51	NC	_____	___	___			111	TSTO41	_____	___	___		
52	VDD VTR	_____	___	___			112	TSTO40	_____	___	___		
53	VSS	_____	___	___			113	TSTO39	_____	___	___		
54	NC	_____	___	___			114	VDD VTR	_____	___	___		
55	VSS	_____	___	___			115	VSS	_____	___	___		
56	NC	_____	___	___			116	TSTO38	_____	___	___		
57	VDDI	_____	___	___			117	TSTO37	_____	___	___		
58	VSS	_____	___	___			118	TSTO36	_____	___	___		
59	NC	_____	___	___			119	TSTO35	_____	___	___		
60	VSS	_____	___	___			120	TSTO34	_____	___	___		

(C): COMPONENT SIDE (F):FOIL SIDE

Check Point of the IC303

CSP IC		Check Point		WF NO.	Remarks	CSP IC		Check Point		WF NO.	Remarks
Pin	Name					Pin	Name				
121	TSTO33	_____	—	—		181	Y OUT3	_____	—	—	
122	TSTO32	_____	—	—		182	Y OUT2	_____	—	—	
123	TSTO31	_____	—	—		183	Y OUT1	_____	—	—	
124	TSTO30	_____	—	—		184	Y OUT0	_____	—	—	
125	TSTO29	_____	—	—		185	DD FCK	R303 (RIGHT)	B-4	WF-152	SUB P.C.B. (C)
126	TSTO28	_____	—	—		186	VDD VTR	_____	—	—	
127	TSTO27	_____	—	—		187	TDO	CL312	B-3	WF-1	SUB P.C.B. (C)
128	TSTO26	_____	—	—		188	TRST	C343 (UPPER)	B-4	WF-1	SUB P.C.B. (C)
129	TSTO25	_____	—	—		189	TCK	CL311	B-4	WF-1	SUB P.C.B. (C)
130	TSTO24	_____	—	—		190	TDI	CL310	B-3	WF-1	SUB P.C.B. (C)
131	TSTO23	_____	—	—		191	TMS	CL309	B-4	WF-1	SUB P.C.B. (C)
132	TSTO22	_____	—	—		192	P DOWN	R317 (LEFT)	C-5	WF-1	SUB P.C.B. (C)
133	TSTO21	_____	—	—		193	FCK	R145 (LOWER)	B-3	WF-49	SUB P.C.B. (F)
134	VSS	_____	—	—		194	SEL OH	_____	—	—	
135	VDDI	_____	—	—		195	FI	IC101-18	C-2	WF-157	SUB P.C.B. (F)
136	TSTO20	_____	—	—		196	2F CK	_____	—	—	
137	TSTO19	_____	—	—		197	CLK RST	R347 (LEFT)	C-5	WF-1	SUB P.C.B. (C)
138	TSTO18	_____	—	—		198	VSS	_____	—	—	
139	TSTO17	RL307	B-3	WF-1	SUB P.C.B. (C)	199	VDDI	_____	—	—	
140	TSTO16	RL306	B-4	WF-1	SUB P.C.B. (C)	200	TVD	IC101-17	C-2	WF-1	SUB P.C.B. (F)
141	TSTO15	_____	—	—		201	THD	R108 (LOWER)	B-3	WF-288	SUB P.C.B. (F)
142	TSTO14	_____	—	—		202	CCD HD	IC101-16	C-2	WF-288	SUB P.C.B. (F)
143	VDD VTR	_____	—	—		203	VDD CAM	_____	—	—	
144	TSTO13	RL305	B-4	WF-1	SUB P.C.B. (C)	204	SIG	_____	—	—	
145	VSS	_____	—	—		205	ZD COM P	_____	—	—	
146	TSTO12	_____	—	—		206	ZC COM P	_____	—	—	
147	TSTO11	_____	—	—		207	VSS	_____	—	—	
148	TSTO10	_____	—	—		208	ZB COM P	_____	—	—	
149	TSTO9	_____	—	—		209	ZA COM P	_____	—	—	
150	TSTO8	_____	—	—		210	PWM ND	_____	—	—	
151	TSTO7	_____	—	—		211	PWM HZB	_____	—	—	
152	TSTO6	_____	—	—		212	PWM HZA	_____	—	—	
153	TSTO5	_____	—	—		213	PWM LIN	_____	—	—	
154	TSTO4	_____	—	—		214	PWM IRIS	R760 (LEFT)	B-7	WF-154	SUB P.C.B. (F)
155	TSTO3	_____	—	—		215	VSS	_____	—	—	
156	TSTO2	_____	—	—		216	IRIS OPEN	R702 (LOWER)	C-7	WF-1	SUB P.C.B. (F)
157	TSTO1	RL303	B-4	WF-1	SUB P.C.B. (C)	217	IRIS CLOSE	IC701-7	C-7	WF-1	SUB P.C.B. (F)
158	TSTO0	_____	—	—		218	F2 C	_____	—	—	
159	DSTB O	_____	—	—		219	FC B	_____	—	—	
160	MEGA PIX	_____	—	—		220	FC A	_____	—	—	
161	BUSY	_____	—	—		221	VCO OUT	RL302	B-5	WF-181	SUB P.C.B. (C)
162	VTR 45M	R304 (RIGHT)	B-4	WF-56	SUB P.C.B. (C)	222	VDD CAM	_____	—	—	
163	INV	CL301	B-3	WF-1	SUB P.C.B. (C)	223	VSS	_____	—	—	
164	INH	CL302	B-4	WF-1	SUB P.C.B. (C)	224	PLL DVD	_____	—	—	
165	C OUT7	_____	—	—		225	PLL AVD	_____	—	—	
166	C OUT6	_____	—	—		226	PLL AVS	_____	—	—	
167	C OUT5	_____	—	—		227	PLL DVS	_____	—	—	
168	C OUT4	_____	—	—		228	VSS	_____	—	—	
169	C OUT3	_____	—	—		229	VDDI	_____	—	—	
170	VSS	_____	—	—		230	B IN9	IC106-9	C-6	WF-207	SUB P.C.B. (C)
171	C OUT2	_____	—	—		231	B IN8	IC106-8	C-6	WF-207	SUB P.C.B. (C)
172	C OUT1	_____	—	—		232	VDDI	_____	—	—	
173	VSS	_____	—	—		233	B IN7	IC106-7	C-6	WF-207	SUB P.C.B. (C)
174	C OUT0	CL318	B-4	WF-1	SUB P.C.B. (C)	234	B IN6	IC106-6	C-6	WF-207	SUB P.C.B. (C)
175	VDD VTR	_____	—	—		235	B IN5	IC106-5	C-6	WF-207	SUB P.C.B. (C)
176	VTR CKO	_____	—	—		236	B IN4	IC106-4	C-6	WF-207	SUB P.C.B. (C)
177	Y OUT7	_____	—	—		237	B IN3	IC106-3	C-6	WF-207	SUB P.C.B. (C)
178	Y OUT6	_____	—	—		238	B IN2	IC106-2	C-6	WF-207	SUB P.C.B. (C)
179	Y OUT5	_____	—	—		239	B IN1	IC106-1	C-6	WF-207	SUB P.C.B. (C)
180	Y OUT4	_____	—	—		240	VSS	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE



Check Point of the IC303

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
241	B IN0	IC106-36	C-6	WF-207	SUB P.C.B. (C)
242	G IN9	IC105-9	C-7	WF-207	SUB P.C.B. (C)
243	G IN8	IC105-8	C-7	WF-207	SUB P.C.B. (C)
244	G IN7	IC105-7	C-7	WF-207	SUB P.C.B. (C)
245	G IN6	IC105-6	C-7	WF-207	SUB P.C.B. (C)
246	G IN5	IC105-5	C-7	WF-207	SUB P.C.B. (C)
247	G IN4	IC105-4	C-7	WF-207	SUB P.C.B. (C)
248	G IN3	IC105-3	C-7	WF-207	SUB P.C.B. (C)
249	G IN2	IC105-2	C-7	WF-207	SUB P.C.B. (C)
250	G IN1	IC105-1	C-7	WF-207	SUB P.C.B. (C)
251	G IN0	IC105-36	C-7	WF-207	SUB P.C.B. (C)
252	R IN9	IC104-9	D-7	WF-207	SUB P.C.B. (C)
253	R IN8	IC104-8	D-7	WF-207	SUB P.C.B. (C)
254	R IN7	IC104-7	D-7	WF-207	SUB P.C.B. (C)
255	VSS	————	—	—	
256	R IN6	IC104-6	D-7	WF-207	SUB P.C.B. (C)
257	VDD RGB	————	—	—	
258	R IN5	IC104-5	D-7	WF-207	SUB P.C.B. (C)
259	R IN4	IC104-4	D-7	WF-207	SUB P.C.B. (C)
260	R IN3	IC104-3	D-7	WF-207	SUB P.C.B. (C)
261	R IN2	IC104-2	D-7	WF-207	SUB P.C.B. (C)
262	VSS	————	—	—	
263	R IN1	IC104-1	D-7	WF-207	SUB P.C.B. (C)
264	R IN0	IC104-36	D-7	WF-207	SUB P.C.B. (C)
265	DT CLK	————	—	—	
266	ACK	————	—	—	
267	VDD RGB	————	—	—	
268	VDDI	————	—	—	
269	RQ	————	—	—	
270	RDY	————	—	—	
271	BEND	————	—	—	
272	V1 V2	————	—	—	
273	M VD	RL301	C-5	WF-1	SUB P.C.B. (C)
274	POR	C315 (LEFT)	C-5	WF-1	SUB P.C.B. (C)
275	BUS SEL2	————	—	—	
276	BUS SEL1	————	—	—	
277	CE	R302 (LEFT)	C-5	WF-1	SUB P.C.B. (C)
278	RE	TP3007	B-3	WF-223	MAIN P.C.B. (C)
279	ASTB	TP3004	B-3	WF-1	MAIN P.C.B. (C)
280	WE Ⓛ	R321 (UPPER)	C-5	WF-203	SUB P.C.B. (C)
281	MAD B15	————	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE

# Check Point of the IC2006

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
1	NC	_____	___	___	
2	ADM0	_____	___	___	
3	ADM1	TP3003	B-3	WF-218	MAIN P.C.B. (C)
4	ADM2	_____	___	___	
5	ADM3	_____	___	___	
6	ADM4	_____	___	___	
7	ADM5	_____	___	___	
8	ADM6	_____	___	___	
9	ADM7	_____	___	___	
10	ADM8	_____	___	___	
11	ADM9	_____	___	___	
12	ADM10	_____	___	___	
13	ADM11	_____	___	___	
14	ADM12	_____	___	___	
15	ADM13	_____	___	___	
16	ADM14	_____	___	___	
17	ADM15	_____	___	___	
18	VDD	_____	___	___	
19	E VDD	_____	___	___	
20	UNI CS	TP3008	B-3	WF-153	MAIN P.C.B. (C)
21	NC	_____	___	___	
22	CAM DSP CS	R302 (RIGHT)	C-5	WF-1	SUB P.C.B. (C)
23	LENS DAC CS	IC701-4	C-7	WF-73	SUB P.C.B. (F)
24	ASP1 CS	IC104-33	D-7	WF-73	SUB P.C.B. (C)
25	E2 WP	IC2007-3	B-6	WF-1	SUB P.C.B. (F)
26	L STBY	_____	___	___	
27	E2 HOLD	IC2007-7	B-6	WF-1	SUB P.C.B. (F)
28	E VDD	_____	___	___	
29	VSS	_____	___	___	
30	E VSS	_____	___	___	
31	VDD	_____	___	___	
32	WE (L)	R321 (LOWER)	C-5	WF-149	SUB P.C.B. (C)
33	R PLUG (L)	R2065 (LOWER)	D-6	WF-1	SUB P.C.B. (F)
34	DRV G SHOCK	R2121 (RIGHT)	B-6	WF-1	SUB P.C.B. (F)
35	DVD EMG	_____	___	___	
36	XRE	TP3007	B-3	WF-223	MAIN P.C.B. (C)
37	Z ABS	R741 (UPPER)	C-2	WF-1	SUB P.C.B. (C)
38	DAS	TP3004	B-3	WF-1	MAIN P.C.B. (C)
39	UP DATE	TP3021	B-4	WF-1	MAIN P.C.B. (C)
40	SENS SW	_____	___	___	
41	ARM TM OUT	R3032 (RIGHT)	B-4	WF-1	MAIN P.C.B. (C)
42	MVD	IC101-17	C-2	WF-1	SUB P.C.B. (F)
43	BEND	_____	___	___	
44	CAM IRQ	TP3010	B-4	WF-153	MAIN P.C.B. (C)
45	V1 V2	_____	___	___	
46	NC	CL2002	C-6	WF-1	SUB P.C.B. (F)
47	NC	CL2011	C-6	WF-1	SUB P.C.B. (F)
48	ARM REQ	R3131 (UPPER)	B-4	WF-37	MAIN P.C.B. (C)
49	NC	_____	___	___	
50	P/N	IC101-54	C-2	WF-1	SUB P.C.B. (F)
51	USA INFO	R2122 (LOWER)	D-6	WF-1	SUB P.C.B. (F)
52	RTC DO	R2064 (LOWER)	D-6	WF-153	SUB P.C.B. (F)
53	RTC DI	R2064 (UPPER)	D-6	WF-153	SUB P.C.B. (F)
54	RTC SCK	IC2004-5	B-7	WF-166	SUB P.C.B. (C)
55	OIS DATA	_____	___	___	
56	NC	_____	___	___	
57	OIS CK	_____	___	___	
58	SHTR P	_____	___	___	
59	SHTR M	_____	___	___	
60	NC	_____	___	___	

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
61	UART I	R2057 (LEFT)	D-6	WF-1	SUB P.C.B. (F)
62	UART O	R2056 (LEFT)	D-6	WF-1	SUB P.C.B. (F)
63	NC	RL2003	D-6	WF-1	SUB P.C.B. (F)
64	NC	RL2002	D-6	WF-1	SUB P.C.B. (F)
65	NC	RL2001	D-6	WF-1	SUB P.C.B. (F)
66	CG ASP DAT	IC101-9	C-2	WF-157	SUB P.C.B. (F)
67	NC	_____	___	___	
68	CG ASP SCK	IC106-35	C-6	WF-1	SUB P.C.B. (C)
69	EVR SBO	R2060 (LEFT)	D-6	WF-1	SUB P.C.B. (F)
70	EVR SBI	R2059 (LEFT)	D-6	WF-1	SUB P.C.B. (F)
71	EVR SCK	R2058 (LOWER)	D-5	WF-1	SUB P.C.B. (F)
72	LENS DATA	IC701-2	C-7	WF-73	SUB P.C.B. (F)
73	PLUG IN (L)	C2026 (LOWER)	D-5	WF-1	SUB P.C.B. (F)
74	LENS SCLK	IC701-3	C-7	WF-73	SUB P.C.B. (F)
75	RTC CS	IC2004-4	B-7	WF-153	SUB P.C.B. (C)
76	CCD STBY	Q1102-B	D-4	WF-1	MAIN P.C.B. (F)
77	P OFF	IC2004-19	B-7	WF-1	SUB P.C.B. (C)
78	CCD ON	CL1072	B-3	WF-1	SUB P.C.B. (C)
79	E2 CS	IC2007-1	B-6	WF-1	SUB P.C.B. (F)
80	CG CS	IC101-10	C-2	WF-149	SUB P.C.B. (F)
81	CG RST	R133 (UPPER)	B-1	WF-1	SUB P.C.B. (F)
82	VDD	_____	___	___	
83	VSS	_____	___	___	
84	MODE0	_____	___	___	
85	MODE1	_____	___	___	
86	RIMOCON	R2077 (LEFT)	D-5	WF-1	SUB P.C.B. (F)
87	MEGA REQ	R3133 (LEFT)	B-4	WF-1	MAIN P.C.B. (C)
88	BST	D2001-A	E-5	WF-1	SUB P.C.B. (F)
89	NC	_____	___	___	
90	LCD RVS	R2048 (LEFT)	D-5	WF-1	SUB P.C.B. (F)
91	EVF BL	Q1414-2	E-7	WF-1	MAIN P.C.B. (C)
92	E VSS	_____	___	___	
93	E VDD	_____	___	___	
94	CCD HD	IC101-16	C-2	WF-228	SUB P.C.B. (F)
95	SPLUG (L)	R2045 (RIGHT)	D-5	WF-1	SUB P.C.B. (F)
96	FZ SW	_____	___	___	
97	NC	_____	___	___	
98	LENS TST1	IC701-36	C-7	WF-1	SUB P.C.B. (F)
99	LENS TST2	IC701-1	C-7	WF-1	SUB P.C.B. (F)
100	FABS	R715 (UPPER)	C-2	WF-1	SUB P.C.B. (C)
101	SHTR OPEN	R2094 (RIGHT)	D-5	WF-1	SUB P.C.B. (F)
102	VDD	_____	___	___	
103	VSS	_____	___	___	
104	HOST REQ	R3141 (UPPER)	B-6	WF-174	MAIN P.C.B. (C)
105	NC	_____	___	___	
106	COVER SW2	R2105 (RIGHT)	D-5	WF-1	SUB P.C.B. (F)
107	DSP RST	CL303	B-4	WF-1	SUB P.C.B. (C)
108	D ACCES INFO	R2104 (RIGHT)	D-4	WF-1	SUB P.C.B. (F)
109	DISK LED	QR2006-5	D-4	WF-1	SUB P.C.B. (F)
110	NC	_____	___	___	
111	CARD LED	QR2006-2	D-4	WF-1	SUB P.C.B. (F)
112	NEAR SW	CL2020	D-4	WF-1	SUB P.C.B. (F)
113	SVD	IC701-5	C-7	WF-1	SUB P.C.B. (F)
114	FAR SW	CL2021	D-4	WF-1	SUB P.C.B. (F)
115	NC	_____	___	___	
116	NC	_____	___	___	
117	LCD ON	TP92	A-3	WF-1	MAIN P.C.B. (F)
118	CAM D3OFF	R317 (RIGHT)	C-5	WF-1	SUB P.C.B. (C)
119	LCD BL ON	R1414 (LOWER)	E-6	WF-1	MAIN P.C.B. (C)
120	CAMP TEST	CL2024	D-4	WF-1	SUB P.C.B. (F)

(C): COMPONENT SIDE (F):FOIL SIDE

Check Point of the IC2006

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
121	NC	R2003 (UPPER)	D-4	WF-1	SUB P.C.B. (F)
122	NC	R2024 (UPPER)	D-4	WF-1	SUB P.C.B. (F)
123	CLK RST	R347 (RIGHT)	C-5	WF-1	SUB P.C.B. (C)
124	POW LCD SW	C2045 (UPPER)	D-4	WF-1	SUB P.C.B. (F)
125	NC	_____	___	___	
126	NC	_____	___	___	
127	CHA END	R2034 (LOWER)	D-4	WF-1	SUB P.C.B. (F)
128	LENS RST	IC701-35	C-7	WF-1	SUB P.C.B. (F)
129	OIS CS	_____	___	___	
130	PS (L)	IC1001-10	C-3	WF-1	MAIN P.C.B. (F)
131	HOLE BIAS	R2083 (UPPER)	D-3	WF-154	SUB P.C.B. (F)
132	HOLE GAIN	R2085 (UPPER)	C-4	WF-102	SUB P.C.B. (F)
133	PWMB	R2086 (RIGHT)	C-4	WF-154	SUB P.C.B. (F)
134	NC	_____	___	___	
135	NC	_____	___	___	
136	VSS	_____	___	___	
137	E VSS	_____	___	___	
138	VDD	_____	___	___	
139	E VDD	_____	___	___	
140	T	_____	___	___	
141	VER INFO	C2041 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
142	BATT V	D2004-A	B-4	WF-1	SUB P.C.B. (F)
143	EXT MIC	C2025 (UPPER)	C-3	WF-1	SUB P.C.B. (F)
144	AD KEY1	C2016 (UPPER)	C-3	WF-1	SUB P.C.B. (F)
145	AD KEY2	C2015 (UPPER)	C-3	WF-1	SUB P.C.B. (F)
146	BATT D	C2051 (RIGHT)	C-3	WF-1	SUB P.C.B. (F)
147	NC	_____	___	___	
148	Z SW	C2019 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
149	IR	C2018 (RIGHT)	C-4	WF-1	SUB P.C.B. (F)
150	FNO	C2017 (RIGHT)	C-4	WF-1	SUB P.C.B. (F)
151	YAW	_____	___	___	
152	M REF 3M	_____	___	___	
153	PITCH	_____	___	___	
154	WR REMO	C2043 (LOWER)	C-4	WF-1	SUB P.C.B. (F)
155	CR POWER	C2048 (UPPER)	C-4	WF-1	SUB P.C.B. (F)
156	AD KEY5	C2044 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
157	AD KEY3	C2014 (UPPER)	B-3	WF-1	SUB P.C.B. (F)
158	AD KEY4	C2013 (UPPER)	B-3	WF-1	SUB P.C.B. (F)
159	NC	_____	___	___	
160	Y POS	_____	___	___	
161	X POS	_____	___	___	
162	GYRO Y	_____	___	___	
163	GYRO X	_____	___	___	
164	NC	_____	___	___	
165	A VREF	_____	___	___	
166	A VDD	_____	___	___	
167	TDI	R2041 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
168	TDO	_____	___	___	
169	TCK	R2043 (LOWER)	C-4	WF-1	SUB P.C.B. (F)
170	A VSS	_____	___	___	
171	E VSS	_____	___	___	
172	VSS	_____	___	___	
173	TMS	R2044 (RIGHT)	B-4	WF-1	SUB P.C.B. (F)
174	TRST	R2050 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
175	E VDD	_____	___	___	
176	MODE J	CL2023	B-4	WF-1	SUB P.C.B. (F)
177	X READY	TP3009	B-4	WF-227	MAIN P.C.B. (C)
178	S/S	R2092 (UPPER)	B-4	WF-1	SUB P.C.B. (F)
179	ASP3 CS	IC106-33	C-6	WF-73	SUB P.C.B. (C)
180	GUI LED	QR2004-B	B-7	WF-1	SUB P.C.B. (F)

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
181	LED CNT	QR701-B	C-2	WF-1	SUB P.C.B. (C)
182	ASP2 CS	IC105-33	C-7	WF-73	SUB P.C.B. (C)
183	XRST ARM	R2079 (RIGHT)	B-4	WF-1	SUB P.C.B. (F)
184	TRIG END	_____	___	___	
185	CHARGE	_____	___	___	
186	NC	_____	___	___	
187	VDD	_____	___	___	
188	C VDD	_____	___	___	
189	CK SEL1	R2052 (RIGHT)	B-4	WF-1	SUB P.C.B. (F)
190	RESET	C2027 (UPPER)	C-6	WF-1	SUB P.C.B. (F)
191	X1	C2007 (LEFT)	B-5	WF-178	SUB P.C.B. (F)
192	X2	C2020 (LEFT)	B-5	WF-178	SUB P.C.B. (F)
193	P VSS	_____	___	___	
194	C VSS	_____	___	___	
195	P VDD	_____	___	___	
196	PLL SEL	R2055 (RIGHT)	B-5	WF-1	SUB P.C.B. (F)
197	AFST	_____	___	___	
198	E2 SDI	IC2007-2	B-6	WF-1	SUB P.C.B. (F)
199	E2 SDO	R2096 (LEFT)	B-5	WF-1	SUB P.C.B. (F)
200	E2 SCK	IC2007-6	B-6	WF-1	SUB P.C.B. (F)
201	CAM T	R2074 (LEFT)	B-6	WF-1	SUB P.C.B. (F)
202	NC	_____	___	___	
203	MEMO END	R3143 (LOWER)	B-4	WF-1	MAIN P.C.B. (C)
204	NC	_____	___	___	
205	WINK END	R3132 (RIGHT)	B-4	WF-97	MAIN P.C.B. (C)
206	SHTR CLOSE	R2095 (LEFT)	C-6	WF-1	SUB P.C.B. (F)
207	VSS	_____	___	___	
208	E VSS	_____	___	___	
209	NC	_____	___	___	

(C): COMPONENT SIDE (F):FOIL SIDE

# Check Point of the IC3001

CSP IC		Check Point		WF NO.	Remarks	CSP IC		Check Point		WF NO.	Remarks
Pin	Name					Pin	Name				
1	NC	_____	—	—		61	SIO	R3014 (LOWER)	D-3	WF-1	MAIN P.C.B. (C)
2	NC	_____	—	—		62	SOO	R3015 (RIGHT)	D-3	WF-1	MAIN P.C.B. (C)
3	NC	_____	—	—		63	SCKO	R3016 (RIGHT)	D-4	WF-1	MAIN P.C.B. (C)
4	NC	_____	—	—		64	DRAMSDAT 0	_____	—	—	
5	AVDDTR	_____	—	—		65	DRAMSDAT 1	_____	—	—	
6	DP	R3001 (RIGHT)	D-4	WF-1	MAIN P.C.B. (C)	66	DRAMSDAT 2	_____	—	—	
7	AVSSTR	_____	—	—		67	DRAMSDAT 3	_____	—	—	
8	RSDP	R3001 (LEFT)	D-4	WF-1	MAIN P.C.B. (C)	68	VSSIO5	_____	—	—	
9	DM	R3002 (LEFT)	D-4	WF-1	MAIN P.C.B. (C)	69	DRAMSDAT 4	_____	—	—	
10	RSDM	R3002 (RIGHT)	D-4	WF-1	MAIN P.C.B. (C)	70	DRAMSDAT 5	_____	—	—	
11	AVSSTR	_____	—	—		71	DRAMSDAT 6	_____	—	—	
12	AVDDPLL	_____	—	—		72	DRAMSDAT 7	_____	—	—	
13	AVSSPLL	_____	—	—		73	DRAMSDAT 8	_____	—	—	
14	RES10K	R3005 (RIGHT)	D-3	WF-1	MAIN P.C.B. (C)	74	VSSIO5	_____	—	—	
15	RPU PAD	R3006 (RIGHT)	D-4	WF-1	MAIN P.C.B. (C)	75	VDDIO5	_____	—	—	
16	T AAP	TP3027	E-4	WF-1	MAIN P.C.B. (C)	76	DRAMSDAT 9	_____	—	—	
17	OSCO	R3008 (LEFT)	D-5	WF-1	MAIN P.C.B. (C)	77	DRAMSDAT 10	_____	—	—	
18	OSCI	C3058 (RIGHT)	D-4	WF-1	MAIN P.C.B. (C)	78	DRAMSDAT 11	_____	—	—	
19	VDD	_____	—	—		79	DRAMSDAT 12	_____	—	—	
20	VSS	_____	—	—		80	VSSIO5	_____	—	—	
21	SDDATA 0	R3145 (LOWER)	D-5	WF-1	MAIN P.C.B. (C)	81	VDDIO5	_____	—	—	
22	SDDATA 1	R3146 (LOWER)	D-5	WF-1	MAIN P.C.B. (C)	82	VDDIO5	_____	—	—	
23	SDDATA 2	R3147 (LOWER)	D-6	WF-1	MAIN P.C.B. (C)	83	DRAMSDAT 13	_____	—	—	
24	SDDATA 3	R3148 (LOWER)	D-5	WF-1	MAIN P.C.B. (C)	84	DRAMSDAT 14	_____	—	—	
25	SDMD	R3149 (LOWER)	D-5	WF-1	MAIN P.C.B. (C)	85	DRAMSDAT 15	_____	—	—	
26	VDDIO2	_____	—	—		86	DRAMSDAT 16	_____	—	—	
27	VSSIO2	_____	—	—		87	DRAMSDAT 17	_____	—	—	
28	SDCLK	R3009 (LOWER)	D-5	WF-1	MAIN P.C.B. (C)	88	DRAMSDAT 18	_____	—	—	
29	VDDIO2	_____	—	—		89	DRAMSDAT 19	_____	—	—	
30	VSSIO2	_____	—	—		90	DRAMSDAT 20	_____	—	—	
31	CARD DET	C6302 (LEFT)	C-3	WF-1	SIDE R P.C.B. (C)	91	DRAMSDAT 21	_____	—	—	
32	PROTECT	C6303 (LEFT)	C-3	WF-1	SIDE R P.C.B. (C)	92	DRAMSDAT 22	_____	—	—	
33	VSSIO2	_____	—	—		93	DRAMSDAT 23	_____	—	—	
34	NC	_____	—	—		94	DRAMSDAT 24	_____	—	—	
35	NC	_____	—	—		95	VDDIO5	_____	—	—	
36	NC	_____	—	—		96	VSSIO5	_____	—	—	
37	NC	_____	—	—		97	DRAMSDAT 25	_____	—	—	
38	NC	_____	—	—		98	DRAMSDAT 26	_____	—	—	
39	VDDIO3	_____	—	—		99	DRAMSDAT 27	_____	—	—	
40	VSSIO3	_____	—	—		100	DRAMSDAT 28	_____	—	—	
41	NC	_____	—	—		101	DRAMSDAT 29	_____	—	—	
42	NC	_____	—	—		102	DRAMSDAT 30	_____	—	—	
43	NC	_____	—	—		103	DRAMSDAT 31	_____	—	—	
44	RDREQ0	R3010 (LEFT)	E-5	WF-1	MAIN P.C.B. (C)	104	VDDIO5	_____	—	—	
45	RDREQ1	R3011 (LEFT)	E-5	WF-1	MAIN P.C.B. (C)	105	VSSIO5	_____	—	—	
46	NC	_____	—	—		106	DRAMSDQM 0	_____	—	—	
47	NC	_____	—	—		107	DRAMSDQM 1	_____	—	—	
48	XSOF	R3012 (LEFT)	D-5	WF-1	MAIN P.C.B. (C)	108	DRAMSDQM 2	_____	—	—	
49	NC	_____	—	—		109	DRAMSDQM 3	_____	—	—	
50	NC	_____	—	—		110	VSSIO5	_____	—	—	
51	NC	_____	—	—		111	VDDIO5	_____	—	—	
52	VSSIO3	_____	—	—		112	XDRAMSWE	_____	—	—	
53	VDDIO3	_____	—	—		113	XDRAMSCAS	_____	—	—	
54	INT0	R3013 (RIGHT)	D-3	WF-1	MAIN P.C.B. (C)	114	XDRAMSRAS	_____	—	—	
55	INT1	_____	—	—		115	DRAMSKLKO	_____	—	—	
56	INT2	TP3029	D-3	WF-1	MAIN P.C.B. (C)	116	DRAMSKCE 0	_____	—	—	
57	INT3	_____	—	—		117	DRAMSKLKIN	_____	—	—	
58	INT4	_____	—	—		118	VSSIO5	_____	—	—	
59	VSSIO1	_____	—	—		119	NC	_____	—	—	
60	VDDIO1	_____	—	—		120	NC	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE

# Check Point of the IC3001

CSP IC		Check Point		WF NO.	Remarks	CSP IC		Check Point		WF NO.	Remarks
Pin	Name					Pin	Name				
121	NC	_____	—	—		181	SY	R3031 (UPPER)	B-4	WF-1	MAIN P.C.B. (C)
122	NC	_____	—	—		182	ICR	R3137 (UPPER)	B-4	WF-1	MAIN P.C.B. (C)
123	NC	_____	—	—		183	PWM0	R3142 (LOWER)	B-4	WF-1	MAIN P.C.B. (C)
124	NC	_____	—	—		184	PWM1	R3151 (UPPER)	B-4	WF-1	MAIN P.C.B. (C)
125	NC	_____	—	—		185	VDDIO8	_____	—	—	
126	XDRAMSCS 0	_____	—	—		186	ADM 0	_____	—	—	
127	DRAMSBANK 0	_____	—	—		187	ADM 1	TP3003	B-3	WF-218	MAIN P.C.B. (C)
128	DRAMSBANK 1	_____	—	—		188	ADM 2	_____	—	—	
129	VDD	_____	—	—		189	ADM 3	_____	—	—	
130	DRAMSA DR 0	_____	—	—		190	ADM 4	_____	—	—	
131	DRAMSA DR 1	_____	—	—		191	ADM 5	_____	—	—	
132	DRAMSA DR 2	_____	—	—		192	ADM 6	_____	—	—	
133	DRAMSA DR 3	_____	—	—		193	ADM 7	_____	—	—	
134	VSS	_____	—	—		194	VSSIO8	_____	—	—	
135	DRAMSA DR 4	_____	—	—		195	ADM 8	_____	—	—	
136	DRAMSA DR 5	_____	—	—		196	ADM 9	_____	—	—	
137	DRAMSA DR 6	_____	—	—		197	ADM 10	_____	—	—	
138	DRAMSA DR 7	_____	—	—		198	ADM 11	_____	—	—	
139	VSS	_____	—	—		199	ADM 12	_____	—	—	
140	DRAMSA DR 8	_____	—	—		200	ADM 13	_____	—	—	
141	DRAMSA DR 9	_____	—	—		201	ADM 14	_____	—	—	
142	DRAMSA DR 10	_____	—	—		202	ADM 15	_____	—	—	
143	DRAMSA DR 11	_____	—	—		203	VDDIO8	_____	—	—	
144	DRAMSA DR 12	_____	—	—		204	XVALE	TP3004	B-3	WF-1	MAIN P.C.B. (C)
145	VDDIO5	_____	—	—		205	XWEH	TP3005	B-3	WF-153	MAIN P.C.B. (C)
146	VDDIO5	_____	—	—		206	XWEL	TP3005	B-3	WF-153	MAIN P.C.B. (C)
147	VSSIO5	_____	—	—		207	XRE	TP3007	B-3	WF-223	MAIN P.C.B. (C)
148	TDI	_____	—	—		208	XCS	TP3008	B-3	WF-153	MAIN P.C.B. (C)
149	TDO	R3022 (UPPER)	B-3	WF-1	MAIN P.C.B. (C)	209	XWAIT	TP3009	B-4	WF-227	MAIN P.C.B. (C)
150	TCK	_____	—	—		210	CAMIRQ	TP3010	B-4	WF-153	MAIN P.C.B. (C)
151	TMS	_____	—	—		211	VDD	_____	—	—	
152	XTRST	R3144 (LEFT)	B-4	WF-1	MAIN P.C.B. (C)	212	XRST	R3033 (RIGHT)	B-4	WF-1	MAIN P.C.B. (C)
153	DBGEN	R3023 (UPPER)	B-3	WF-1	MAIN P.C.B. (C)	213	SFRM0	TP3011	C-5	WF-37	MAIN P.C.B. (F)
154	VDDIO4	_____	—	—		214	SFRM1	R3133 (LEFT)	B-4	WF-1	MAIN P.C.B. (C)
155	TRACECLK	_____	—	—		215	SFRM2/XCTS	R3132 (RIGHT)	B-4	WF-180	MAIN P.C.B. (C)
156	TRACESYNC	_____	—	—		216	SFRM3	R3204(LEFT)	C-6	WF-1	MAIN P.C.B. (C)
157	PIPESTA 0	_____	—	—		217	SFRM4	R3131 (UPPER)	B-4	WF-228	MAIN P.C.B. (C)
158	PIPESTA 1	_____	—	—		218	VSSIO7	_____	—	—	
159	PIPESTA 2	_____	—	—		219	XSCS 0	TP3012	C-7	WF-1	MAIN P.C.B. (C)
160	TRACEPKT 0	_____	—	—		220	NC	_____	—	—	
161	TRACEPKT 1	_____	—	—		221	NC	_____	—	—	
162	TRACEPKT 2	_____	—	—		222	NC	_____	—	—	
163	TRACEPKT 3	_____	—	—		223	NC	_____	—	—	
164	VDDIO4	_____	—	—		224	NC	_____	—	—	
165	VSSIO4	_____	—	—		225	NC	_____	—	—	
166	TRACEPKT 4	_____	—	—		226	NC	_____	—	—	
167	TRACEPKT 5	_____	—	—		227	XSWE 0	TP3014	C-6	WF-1	MAIN P.C.B. (C)
168	TRACEPKT 6	_____	—	—		228	NC	_____	—	—	
169	TRACEPKT 7	_____	—	—		229	VSS	_____	—	—	
170	VDDIO4	_____	—	—		230	XARD	TP3015	C-7	WF-1	MAIN P.C.B. (C)
171	VSSIO4	_____	—	—		231	NC	_____	—	—	
172	EXTRGO 0	R3024 (UPPER)	C-4	WF-1	MAIN P.C.B. (C)	232	VDDIO7	_____	—	—	
173	NC	_____	—	—		233	NC	_____	—	—	
174	RTCK	R3025 (LOWER)	C-4	WF-1	MAIN P.C.B. (C)	234	AADR 1	TP3017	C-7	WF-1	MAIN P.C.B. (C)
175	DBGR	_____	—	—		235	AADR 2	_____	—	—	
176	DBGA	_____	—	—		236	AADR 3	_____	—	—	
177	VSSIO4	_____	—	—		237	AADR 4	_____	—	—	
178	SCK2/RTS	R3152 (UPPER)	C-4	WF-1	MAIN P.C.B. (C)	238	VSSIO7	_____	—	—	
179	SO2/TXD	R3027 (RIGHT)	B-3	WF-1	MAIN P.C.B. (C)	239	VDDIO7	_____	—	—	
180	SI2/RXD	R3028 (RIGHT)	C-3	WF-1	MAIN P.C.B. (C)	240	NC	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE

Check Point of the IC3001

CSP IC		Check Point		WF NO.	Remarks	CSP IC		Check Point		WF NO.	Remarks
Pin	Name					Pin	Name				
241	NC	_____	—	—		302	ADIN 0	_____	—	—	
242	NC	_____	—	—		303	ADIN 1	_____	—	—	
243	NC	_____	—	—		304	ADIN 2	_____	—	—	
244	NC	_____	—	—		305	ADIN 3	_____	—	—	
245	NC	_____	—	—		306	ADIN 4	_____	—	—	
246	NC	_____	—	—		307	ADIN 5	_____	—	—	
247	AADR 5	_____	—	—		308	ADIN 6	_____	—	—	
248	AADR 6	_____	—	—		309	ADIN 7	_____	—	—	
249	AADR 7	_____	—	—		310	ADIN 8	_____	—	—	
250	AADR 8	_____	—	—		311	ADIN 9	_____	—	—	
251	AADR 9	_____	—	—		312	VSSIO6	_____	—	—	
252	AADR 10	_____	—	—		313	FCA	_____	—	—	
253	AADR 11	_____	—	—		314	FCB	_____	—	—	
254	AADR 12	_____	—	—		315	F2C	_____	—	—	
255	AADR 13	_____	—	—		316	VDDIO6	_____	—	—	
256	AADR 14	_____	—	—		317	ZACOMP	_____	—	—	
257	AADR 15	_____	—	—		318	ZBCOMP	_____	—	—	
258	VDDIO7	_____	—	—		319	ZCCOMP	CL318	B-4	WF-1	SUB P.C.B. (C)
259	AADR 16	_____	—	—		320	ZDCOMP	_____	—	—	
260	AADR 17	_____	—	—		321	SIG	_____	—	—	
261	AADR 18	_____	—	—		322	VSSIO6	_____	—	—	
262	AADR 19	_____	—	—		323	ALCPWM	_____	—	—	
263	AADR 20	_____	—	—		324	NC	_____	—	—	
264	AADR 21	_____	—	—		325	IRISCLOSE	R3134 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)
265	AADR 22	_____	—	—		326	VDDIO6	_____	—	—	
266	AADR 23	_____	—	—		327	CAMHD	_____	—	—	
267	VSSIO7	_____	—	—		328	CAMVD	R3135 (LEFT)	C-6	WF-213	MAIN P.C.B. (C)
268	NC	_____	—	—		329	VSSIO6	_____	—	—	
269	NC	_____	—	—		330	FCK45	R304 (LEFT)	B-4	WF-67	SUB P.C.B. (C)
270	ADAT 0	TP3018	C-6	WF-1	MAIN P.C.B. (C)	331	AVDD1B	_____	—	—	
271	ADAT 1	_____	—	—		332	AVDD2B	_____	—	—	
272	ADAT 2	_____	—	—		333	YOUT	R3047 (LEFT)	C-6	WF-21	MAIN P.C.B. (C)
273	ADAT 3	_____	—	—		334	YCCOMP	_____	—	—	
274	ADAT 4	_____	—	—		335	YCIREF	R3049 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)
275	ADAT 5	_____	—	—		336	COUT	R3048 (LEFT)	C-6	WF-22	MAIN P.C.B. (C)
276	ADAT 6	_____	—	—		337	AVSS1B	_____	—	—	
277	ADAT 7	_____	—	—		338	AVSS2B	_____	—	—	
278	VDD	_____	—	—		339	AVDD1A	_____	—	—	
279	ADAT 8	_____	—	—		340	AVDD2A	_____	—	—	
280	ADAT 9	_____	—	—		341	LCDROUT	_____	—	—	
281	ADAT 10	_____	—	—		342	LCDGOUT	_____	—	—	
282	ADAT 11	_____	—	—		343	LCDBOUT	_____	—	—	
283	ADAT 12	_____	—	—		344	VDD	_____	—	—	
284	ADAT 13	_____	—	—		345	LCDCOMP	_____	—	—	
285	ADAT 14	_____	—	—		346	NC	_____	—	—	
286	ADAT 15	_____	—	—		347	LCDVREF	R3054 (UPPER)	D-6	WF-1	MAIN P.C.B. (C)
287	NC	_____	—	—		348	AVSS1A	_____	—	—	
288	VDDIO7	_____	—	—		349	AVSS2A	_____	—	—	
289	SCK1	R3038 (UPPER)	B-5	WF-2	MAIN P.C.B. (C)	350	AVDD5	_____	—	—	
290	SO1	R3039 (RIGHT)	B-5	WF-2	MAIN P.C.B. (C)	351	ADC0	R3136 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)
291	SI1	R3040 (RIGHT)	C-6	WF-1	MAIN P.C.B. (C)	352	ADC1	TP3021	B-4	WF-1	MAIN P.C.B. (C)
292	INT5	Q3002-E	B-6	WF-1	MAIN P.C.B. (C)	353	ADC2	R3056 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)
293	INT6	R3205 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)	354	ADC3	C3068 (LEFT)	C-6	WF-1	MAIN P.C.B. (C)
294	INT7	R3141 (UPPER)	B-6	WF-57	MAIN P.C.B. (C)	355	AVSS5	_____	—	—	
295	XNMI	R3044 (UPPER)	B-5	WF-1	MAIN P.C.B. (C)	356	VDD	_____	—	—	
296	SCL	R3045 (UPPER)	B-5	WF-1	MAIN P.C.B. (C)	357	VSS	_____	—	—	
297	SDA	R3046 (UPPER)	B-6	WF-1	MAIN P.C.B. (C)	358	NC	_____	—	—	
298	XRSTOUT	TP3019	B-6	WF-1	MAIN P.C.B. (C)	359	VSSIO5	_____	—	—	
299	SYSCLK	TP3020	B-5	WF-1	MAIN P.C.B. (C)	360	NC	_____	—	—	
300	VSS	_____	—	—		361	NC	_____	—	—	
301	VDDIO6	_____	—	—		362	NC	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE

Check Point of the IC3001

CSP IC		Check Point		WF NO.	Remarks	CSP IC		Check Point		WF NO.	Remarks
Pin	Name					Pin	Name				
363	NC	_____	—	—		424	VSS	_____	—	—	
364	NC	_____	—	—		425	NC	_____	—	—	
365	NC	_____	—	—		426	NC	_____	—	—	
366	NC	_____	—	—		427	NC	_____	—	—	
367	NC	_____	—	—		428	VDD	_____	—	—	
368	AVDD0	_____	—	—		429	VDDIO4	_____	—	—	
369	AVSS0	_____	—	—		430	NC	_____	—	—	
370	AVDD1	_____	—	—		431	NC	_____	—	—	
371	AVSS1	_____	—	—		432	NC	_____	—	—	
372	AVDD2	_____	—	—		433	NC	_____	—	—	
373	AVSS2	_____	—	—		434	VDDIO4	_____	—	—	
374	AVDD3	_____	—	—		435	NC	_____	—	—	
375	AVSS3	_____	—	—		436	NC	_____	—	—	
376	AVDD4	_____	—	—		437	NC	_____	—	—	
377	AVSS4	_____	—	—		438	NC	_____	—	—	
378	CLKSEL 0	_____	—	—		439	VSSIO4	_____	—	—	
379	CLKSEL 1	_____	—	—		440	NC	_____	—	—	
380	CLKSEL 2	_____	—	—		441	NC	_____	—	—	
381	AMMPCLK	R3061 (RIGHT)	B-5	WF-1	MAIN P.C.B (C)	442	NC	_____	—	—	
382	MEMCLK	R3062 (LEFT)	B-5	WF-1	MAIN P.C.B (C)	443	VSSIO4	_____	—	—	
383	MONOUT0	R3063 (LEFT)	B-5	WF-1	MAIN P.C.B (C)	444	ATADD 0	R3101 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
384	MONOUT1	R3064 (LEFT)	C-6	WF-1	MAIN P.C.B (C)	445	ATADD 1	R3102 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
385	MONOUT2	R3065 (LEFT)	C-6	WF-1	MAIN P.C.B (C)	446	ATADD 2	R3103 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
386	MODE 0	_____	—	—		447	ATADD 3	R3104 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
387	MODE 1	_____	—	—		448	ATADD 4	R3105 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
388	MODE 2	_____	—	—		449	ATADD 5	R3106 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
389	TESTSEL	_____	—	—		450	ATADD 6	R3107 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
390	SCANEN	_____	—	—		451	ATADD 7	R3108 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
391	ILATCH	_____	—	—		452	VDDIO4	_____	—	—	
392	IPBOOT	_____	—	—		453	ATADD 0	R3109 (UPPER)	E-4	WF-1	MAIN P.C.B (F)
393	VSSIO5	_____	—	—		454	ATADD 1	R3110 (UPPER)	E-4	WF-1	MAIN P.C.B (F)
394	CLK135	TP3022	D-6	WF-113	MAIN P.C.B (C)	455	ATADD 2	R3111 (UPPER)	E-4	WF-1	MAIN P.C.B (F)
395	CLK27A	TP3023	D-6	WF-34	MAIN P.C.B (C)	456	ATADD 3	R3112 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
396	NC	_____	—	—		457	ATADD 4	R3113 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
397	VDDIO5	_____	—	—		458	ATADD 5	R3114 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
398	DOMCK	IC3301-2	C-6	WF-186	MAIN P.C.B (F)	459	ATADD 6	R3115 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
399	DOBCK	IC3301-3	C-6	WF-130	MAIN P.C.B (F)	460	ATADD 7	R3116 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
400	DOLRCK	IC3301-1	C-6	WF-180	MAIN P.C.B (F)	461	VSSIO4	_____	—	—	
401	DODAT	IC3301-4	C-6	WF-223	MAIN P.C.B (F)	462	ATADA 0	R3117 (RIGHT)	D-6	WF-1	MAIN P.C.B (F)
402	AIDAT1	IC3301-5	C-6	WF-155	MAIN P.C.B (F)	463	ATADA 1	R3118 (RIGHT)	D-6	WF-1	MAIN P.C.B (F)
403	AIDAT2	R3138 (LEFT)	D-6	WF-155	MAIN P.C.B (C)	464	ATADA 2	R3119 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
404	VDDIO5	_____	—	—		465	VSSIO4	_____	—	—	
405	CLK27C	IC8002-11	C-5	WF-146	MAIN P.C.B (F)	466	XATACS1	R3120 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
406	LYCIO 0	IC8002-22	C-5	WF-4	MAIN P.C.B (F)	467	XATACS3	R3121 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
407	LYCIO 1	IC8002-21	C-5	WF-4	MAIN P.C.B (F)	468	XATARD	R3122 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
408	LYCIO 2	IC8002-20	C-5	WF-4	MAIN P.C.B (F)	469	XATAWR	R3123 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
409	LYCIO 3	IC8002-19	C-5	WF-4	MAIN P.C.B (F)	470	ATADMARQ	R3124 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
410	LYCIO 4	IC8002-18	C-5	WF-4	MAIN P.C.B (F)	471	VDDIO4	_____	—	—	
411	LYCIO 5	IC8002-16	C-5	WF-4	MAIN P.C.B (F)	472	XATADMACK	R3125 (UPPER)	E-5	WF-1	MAIN P.C.B (F)
412	LYCIO 6	IC8002-15	C-5	WF-4	MAIN P.C.B (F)	473	XATARESET	R3126 (RIGHT)	D-5	WF-1	MAIN P.C.B (F)
413	LYCIO 7	IC8002-14	C-5	WF-4	MAIN P.C.B (F)	474	ATAIORDY	R3127 (LEFT)	D-5	WF-1	MAIN P.C.B (F)
414	VDDIO5	_____	—	—		475	ATAINTRQ	R3128 (LOWER)	D-5	WF-1	MAIN P.C.B (F)
415	CLK27X	_____	—	—		476	ATATX	R3129 (LOWER)	D-5	WF-1	MAIN P.C.B (C)
416	YCIN 0	_____	—	—		477	VDDIO4	_____	—	—	
417	YCIN 1	_____	—	—		478	NC	_____	—	—	
418	YCIN 2	_____	—	—		479	NC	_____	—	—	
419	YCIN 3	_____	—	—		480	NC	_____	—	—	
420	YCIN 4	_____	—	—		481	NC	_____	—	—	
421	YCIN 5	_____	—	—		482	NC	_____	—	—	
422	YCIN 6	_____	—	—		483	NC	_____	—	—	
423	YCIN 7	_____	—	—		484	NC	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE

# Check Point of the IC3201

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
1	A15	_____	—	—	
2	A14	_____	—	—	
3	A13	_____	—	—	
4	A12	_____	—	—	
5	VIO	_____	—	—	
6	A11	_____	—	—	
7	A10	_____	—	—	
8	A9	_____	—	—	
9	A8	_____	—	—	
10	VIO	_____	—	—	
11	A19	_____	—	—	
12	A20	_____	—	—	
13	/WE	TP3014	C-6	WF-1	MAIN P.C.B. (C)
14	/RESET	R3201 (RIGHT)	C-6	WF-1	MAIN P.C.B. (C)
15	A21	_____	—	—	
16	A22	_____	—	—	
17	/WP//ACC	R3202 (RIGHT)	C-6	WF-1	MAIN P.C.B. (C)
18	RY//BY	R3203 (RIGHT)	C-6	WF-1	MAIN P.C.B. (C)
19	A18	_____	—	—	
20	A17	_____	—	—	
21	A16	_____	—	—	
22	A7	_____	—	—	
23	A6	_____	—	—	
24	A5	_____	—	—	
25	A4	_____	—	—	
26	A3	_____	—	—	
27	A2	_____	—	—	
28	A1	_____	—	—	
29	A0	TP3017	C-7	WF-1	MAIN P.C.B. (C)
30	/CE	TP3012	C-7	WF-1	MAIN P.C.B. (C)
31	VSS	_____	—	—	
32	/OE	TP3015	C-7	WF-1	MAIN P.C.B. (C)
33	DQ0	TP3018	C-6	WF-1	MAIN P.C.B. (C)
34	DQ8	_____	—	—	
35	DQ1	_____	—	—	
36	DQ9	_____	—	—	
37	DQ2	_____	—	—	
38	DQ10	_____	—	—	
39	DQ3	_____	—	—	
40	DQ11	_____	—	—	
41	VCC	_____	—	—	
42	DQ4	_____	—	—	
43	DQ12	_____	—	—	
44	DQ5	_____	—	—	
45	DQ13	_____	—	—	
46	DQ6	_____	—	—	
47	DQ14	_____	—	—	
48	DQ7	_____	—	—	
49	DQ15	_____	—	—	
50	VSS	_____	—	—	
51	NC	_____	—	—	
52	VSS	_____	—	—	
53	NC	_____	—	—	
54	NC	_____	—	—	
55	NC	_____	—	—	
56	NC	_____	—	—	
57	NC	_____	—	—	
58	NC	_____	—	—	
59	NC	_____	—	—	
60	NC	_____	—	—	

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
61	NC	_____	—	—	
62	NC	_____	—	—	
63	NC	_____	—	—	
64	NC	_____	—	—	
65	NC	_____	—	—	
66	NC	_____	—	—	
67	NC	_____	—	—	
68	NC	_____	—	—	
69	NC	_____	—	—	
70	NC	_____	—	—	
71	NC	_____	—	—	
72	NC	_____	—	—	
73	NC	_____	—	—	
74	NC	_____	—	—	
75	NC	_____	—	—	
76	NC	_____	—	—	
77	NC	_____	—	—	
78	NC	_____	—	—	
79	NC	_____	—	—	
80	NC	_____	—	—	

(C): COMPONENT SIDE (F):FOIL SIDE



Check Point of the IC3202

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
1	VDD	_____	—	—	
2	DQ0	_____	—	—	
3	VDDQ	_____	—	—	
4	DQ1	_____	—	—	
5	DQ2	_____	—	—	
6	VSSQ	_____	—	—	
7	DQ3	_____	—	—	
8	DQ4	_____	—	—	
9	VDDQ	_____	—	—	
10	DQ5	_____	—	—	
11	DQ6	_____	—	—	
12	VSSQ	_____	—	—	
13	DQ7	_____	—	—	
14	NC	_____	—	—	
15	VDD	_____	—	—	
16	DQMO	_____	—	—	
17	/WE	_____	—	—	
18	/CAS	_____	—	—	
19	/RAS	_____	—	—	
20	/CS	_____	—	—	
21	NC	_____	—	—	
22	BA0	_____	—	—	
23	BA1	_____	—	—	
24	A10/AP	_____	—	—	
25	A0	_____	—	—	
26	A1	_____	—	—	
27	A2	_____	—	—	
28	DQM2	_____	—	—	
29	VDD	_____	—	—	
30	NC	_____	—	—	
31	DQ16	_____	—	—	
32	VSSQ	_____	—	—	
33	DQ17	_____	—	—	
34	DQ18	_____	—	—	
35	VDDQ	_____	—	—	
36	DQ19	_____	—	—	
37	DQ20	_____	—	—	
38	VSSQ	_____	—	—	
39	DQ21	_____	—	—	
40	DQ22	_____	—	—	
41	VDDQ	_____	—	—	
42	DQ23	_____	—	—	
43	VDD	_____	—	—	
44	VDDQ	_____	—	—	
45	VSSQ	_____	—	—	
46	VDDQ	_____	—	—	
47	VSSQ	_____	—	—	
48	VSSQ	_____	—	—	
49	DQ24	_____	—	—	
50	VSSQ	_____	—	—	
51	DQ25	_____	—	—	
52	DQ26	_____	—	—	
53	VDDQ	_____	—	—	
54	DQ27	_____	—	—	
55	DQ28	_____	—	—	
56	VSSQ	_____	—	—	
57	DQ29	_____	—	—	
58	DQ30	_____	—	—	
59	VDDQ	_____	—	—	
60	DQ31	_____	—	—	

CSP IC		Check Point		WF NO.	Remarks
Pin	Name				
61	NC	_____	—	—	
62	VSS	_____	—	—	
63	DQM3	_____	—	—	
64	A3	_____	—	—	
65	A4	_____	—	—	
66	A5	_____	—	—	
67	A6	_____	—	—	
68	A7	_____	—	—	
69	A8	_____	—	—	
70	A9	_____	—	—	
71	CKE	_____	—	—	
72	CLK	_____	—	—	
73	A11	_____	—	—	
74	A12	_____	—	—	
75	DQM1	_____	—	—	
76	VSS	_____	—	—	
77	NC	_____	—	—	
78	DQ8	_____	—	—	
79	VDDQ	_____	—	—	
80	DQ9	_____	—	—	
81	DQ10	_____	—	—	
82	VSSQ	_____	—	—	
83	DQ11	_____	—	—	
84	DQ12	_____	—	—	
85	VDDQ	_____	—	—	
86	DQ13	_____	—	—	
87	DQ14	_____	—	—	
88	VSSQ	_____	—	—	
89	DQ15	_____	—	—	
90	VSS	_____	—	—	

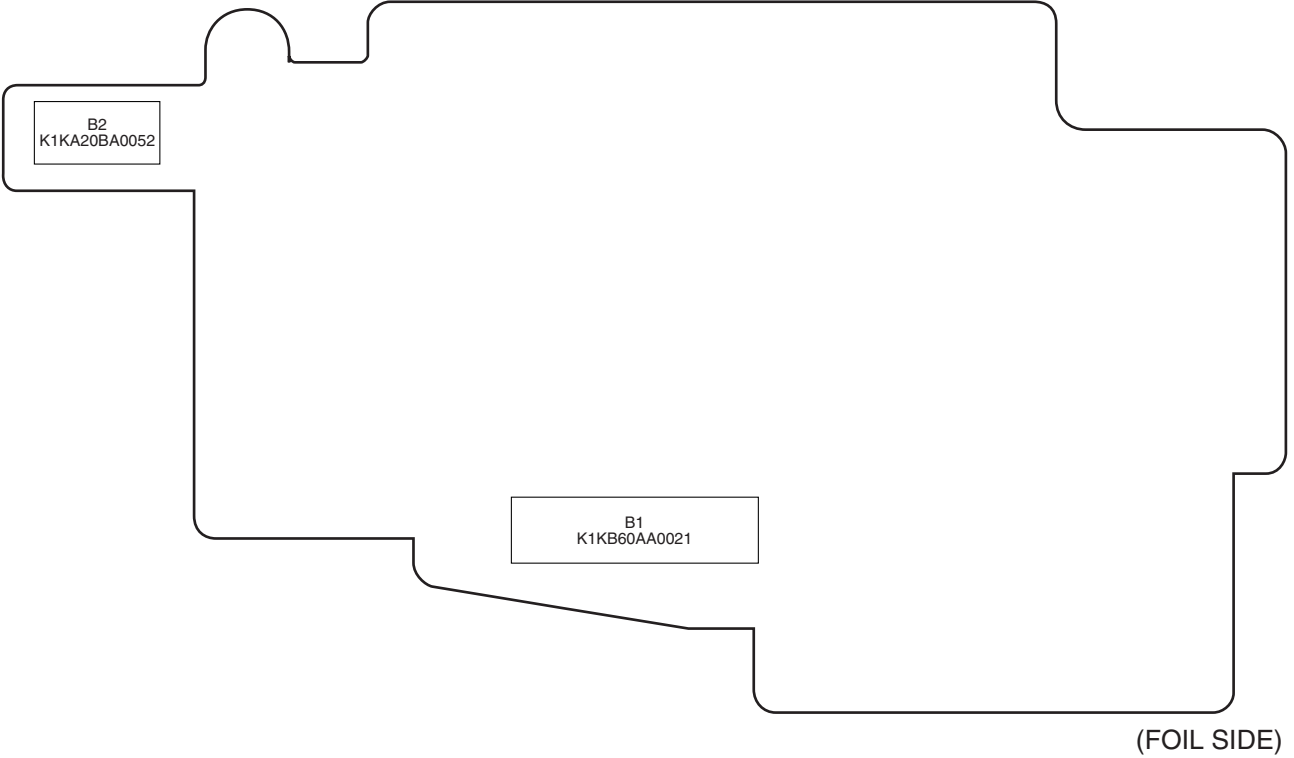
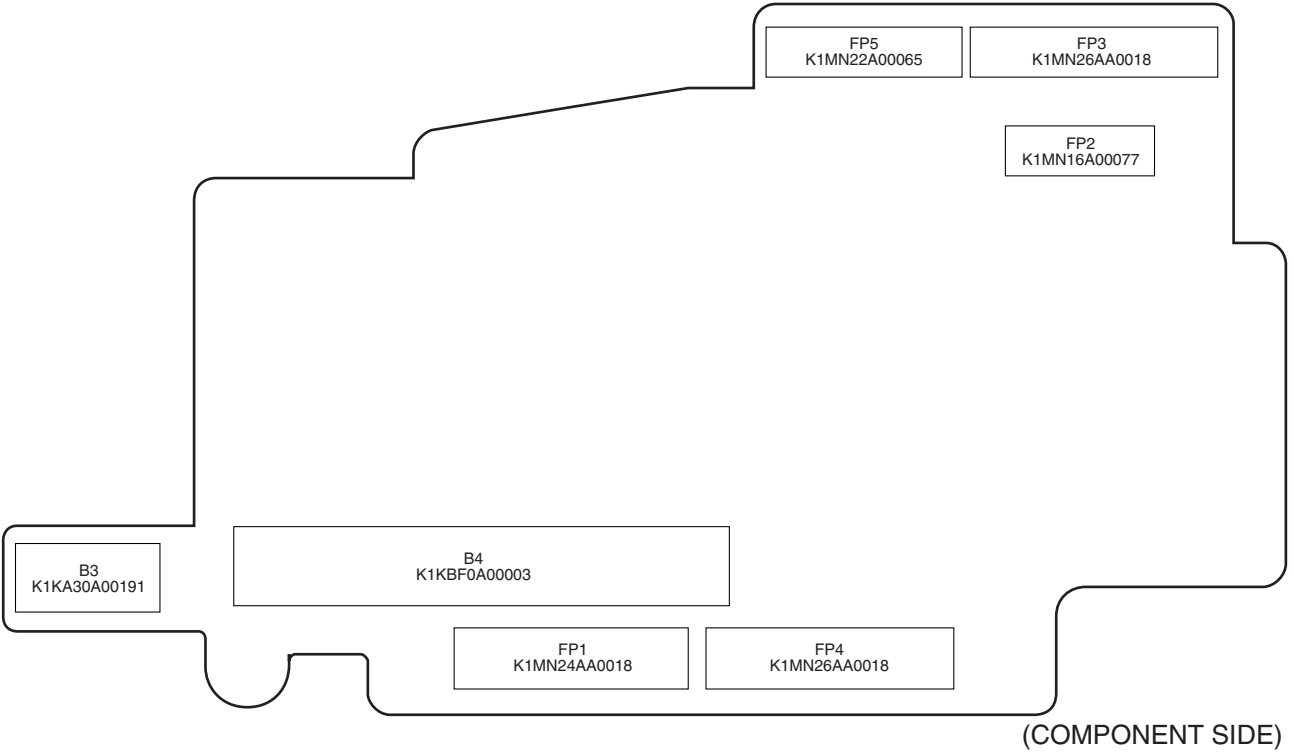
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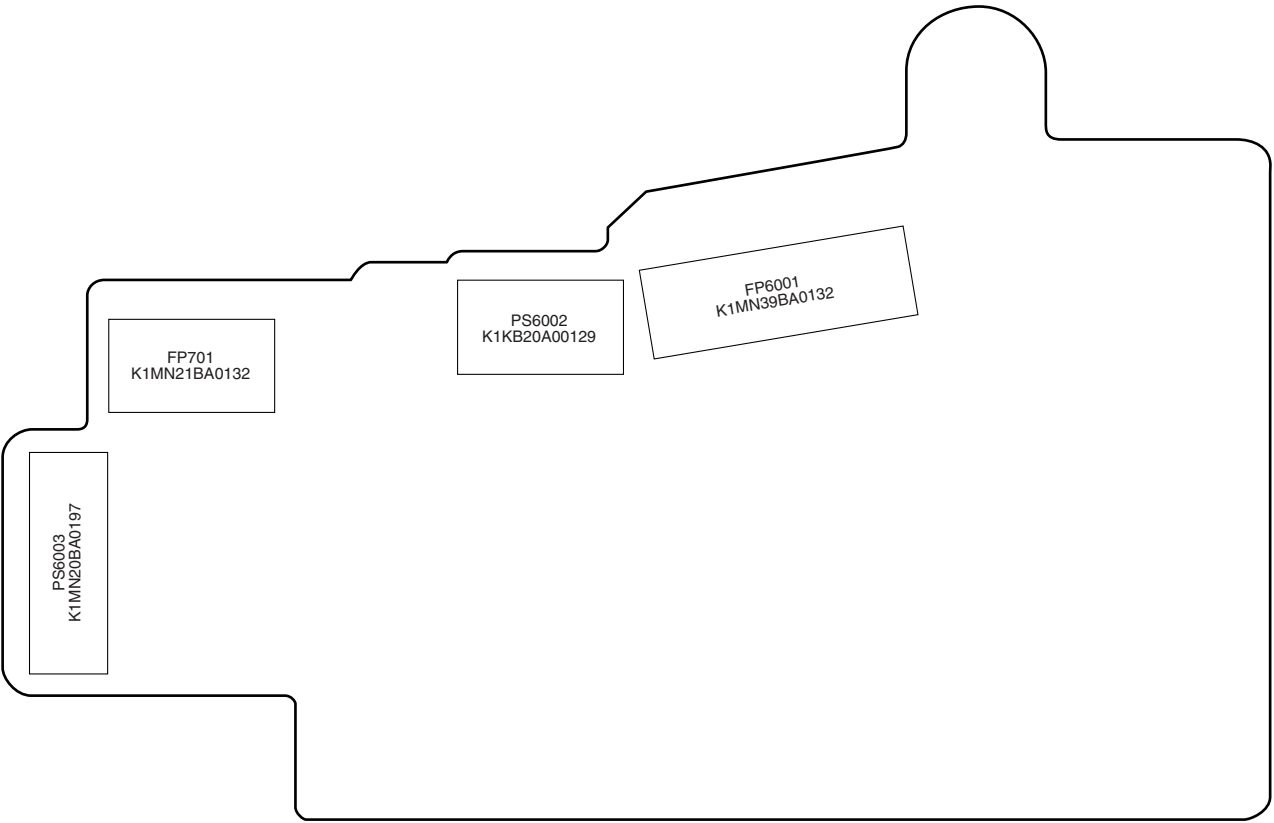
Pin No.	Signal Name	I/O	Explanation
1	NC	-	Not Used
2	ADM0	I/O	Address Data
3	ADM1	I/O	Address Data
4	ADM2	I/O	Address Data
5	ADM3	I/O	Address Data
6	ADM4	I/O	Address Data
7	ADM5	I/O	Address Data
8	ADM6	I/O	Address Data
9	ADM7	I/O	Address Data
10	ADM8	I/O	Address Data
11	ADM9	I/O	Address Data
12	ADM10	I/O	Address Data
13	ADM11	I/O	Address Data
14	ADM12	I/O	Address Data
15	ADM13	I/O	Address Data
16	ADM14	I/O	Address Data
17	ADM15	I/O	Address Data
18	VDD	I	Voltage
19	E VDD	I	Voltage
20	UNI CS	O	AMMP Chip Select
21	NC	-	Not Used
22	CAM DSP CS	O	Camera Chip Select
23	LENS DAC CS	O	Lens Chip Select
24	APS1 CS	O	APS1 Chip Select
25	E2 WP	O	EEPROM Write Protect
26	LSTBY	-	Not Used
27	E2 HOLD	O	EEPROM Hold
28	E VDD	I	Voltage
29	VSS	-	GND
30	E VSS	-	GND
31	VDD	I	Voltage
32	WE (L)	O	Write Enable ON/OFF
33	RPLUG (L)	I	Universal Remote In:Low
34	DRV G SHOCK	O	Drive Unit G Shock Detect
35	VDD EMG	-	Not Used
36	XRE	O	Write Enable ON/OFF
37	Z ABS	I	Zoom Encoder
38	DAS	O	Address Strobe
39	UPDATE	O	Update Control
40	SENS SW	-	Not Used
41	ARM TM OUT	I	AMMP PLL Out of Control Detect
42	MVD	O	VD to DSP LSI
43	BEND	I	Data Block End Request
44	CAM IRQ	I	Camera Interrupt
45	V1 V2	I	ACT Detect End
46	NC	-	Not Used
47	NC	-	Not Used
48	ARM REQ	I	ARM Communication Request
49	NC	-	Not Used
50	P/N	I	NTSC/PAL Select
51	USA INFO	I	Area Detection
52	RTC DO	O	RTC Serial Data Output
53	RTC DI	I	RTC Serial Data Input
54	RTC CLK	I	RTC Serial Clock
55	OIS DATA	-	Not Used
56	NC	-	Not Used
57	OIS SCK	-	Not Used
58	SHTR P	-	Not Used
59	SHTR M	-	Not Used
60	NC	-	Not Used
61	UARTO	O	PC Data Output

Pin No.	Signal Name	I/O	Explanation
62	UARTI	I	PC Data Input
63	NC	-	Not Used
64	NC	-	Not Used
65	NC	-	Not Used
66	CG ASP DAT	O	Character Generation Serial Data
67	NC	-	Not Used
68	CG ASP SCK	O	Character Generation Clock
69	EVR SBO	O	EVR Serial Data Output
70	SVR SBI	I	EVR Serial Data Input
71	SVR SCK	I	EVR Serial Clock
72	LENS DATA	O	Lens Serial Data Output
73	PLUGIN (L)	I	AV JACK Connection:Low
74	LENS SCLK	O	Lens Serial Clock
75	RTC CS	I	RTC Chip Select
76	CCD STBY	O	CCD Standby
77	P OFF	O	Power OFF Request
78	CCD ON	O	CCD Power Control
79	E2 CS	O	EEPROM Chip Select
80	CG CS	O	Character Generation Chip Select
81	CG RST	O	Character Generation Reset
82	VDD	I	Voltage
83	VSS	-	GND
84	MODE0	I	Mode Select 1
85	MODE1	I	Mode Select 2
86	REMOCON	I	IR Remote Control Signal Input
87	MEGAREQUEST	I	Mega Pixel Request
88	BST	I	Boundary Scan Test SW
89	NC	-	NC
90	LCD RVS	I	LCD Reverse Detect
91	EVF BL	O	EVF Backlight Control
92	E VSS	-	GND
93	E VDD	I	Voltage
94	FLSDLY	I	Flashing Delay
95	SPLUG (L)	-	Not Used
96	FZSW	-	Not Used
97	NC	-	Not Used
98	LENS TST 1	I	Lens Test 1
99	LENS TST 2	I	Lens Test 2
100	FABS	I	Focus Encoder
101	SHTR OPEN	-	Not Used
102	VDD	I	Voltage
103	VSS	-	GND
104	HOST REQ	O	Microcomputer Communication Request
105	COVER SW 1	-	Not Used
106	COVER SW 2	I	Disk Cover Open/Close Detection
107	DSP RST	O	DSP Reset
108	D ACCESS INF	I	Disk Access Information
109	DISK LED	O	Disk Access LED Drive
110	ADPT SW	-	Not Used
111	CARD LED	O	Card Access LED Drive
112	NEAR SW	-	Not Used
113	SVD	O	Lens Driver VD
114	FAR SW	-	Not Used
115	NC	-	Not Used
116	ND PWM D	-	Not Used
117	LCD ON (H)	O	Monitor LCD Power Control
118	CAMD3OFF	I	Camera Power Control
119	LCD BL ON	O	Monitor LCD Backlight Control
120	CAMP TEST	-	Test Terminal
121	NC	-	Not Used
122	NC	-	Not Used

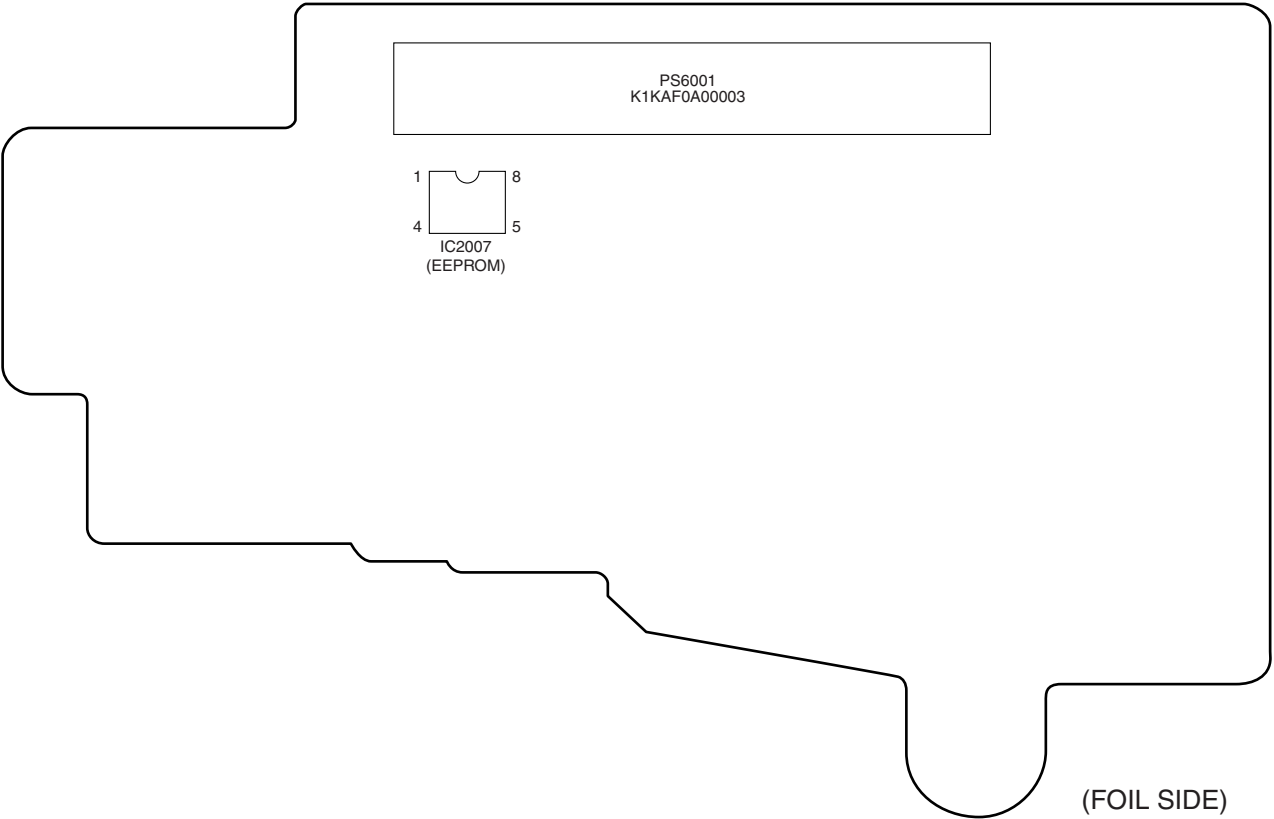
Pin No.	Signal Name	I/O	Explanation
123	CLK RST	O	Camera Reset
124	POWER LCD SW	I	LCD Power Switch
125	NC	-	Not Used
126	NC	-	Not Used
127	CHA END	-	Not Used
128	LENS RST	I	Lens Reset
129	OIS CS	-	Not Used
130	PS (L)	O	Quick Start Control
131	HOLE BIAS	O	HOLE BIAS
132	HOLE GAIN	O	HOLE GAIN
133	PWMD	O	IRIS PWM BIAS
134	ND HOLE BIAS	-	Not Used
135	ND HOLE GAIN	-	Not Used
136	VSS	-	GND
137	E VSS	-	GND
138	VDD	I	Voltage
139	E VDD	I	Voltage
140	T	-	GND
141	VER INFO	I	PCB Version Detect
142	BATT V	I	Battery Voltage Detect
143	EXT MIC	I	EXT MIC JACK Connection Detect
144	AD KEY 1	I	Analog Key Input 1
145	AD KEY 2	I	Analog Key Input 2
146	BATT D	I	Battery D Terminal Input
147	GND	-	GND
148	Z SW	I	Zoom SW Voltage
149	IR	I	IR Sensor
150	FNO	I	F Value
151	YAW	-	Not Used (GND)
152	M REF 3M	-	Not Used (GND)
153	PITCH	-	Not Used (GND)
154	WR REMO	I	Universal Remote Signal Input
155	CR POWER	I	AWP Connection Detect
156	AD KEY 5	I	Analog Key Input 5
157	AD KEY 3	I	Analog Key Input 3
158	AD KEY 4	I	Analog Key Input 4
159	GND	-	GND
160	Y POS	-	Not Used (GND)
161	X POS	-	Not Used (GND)
162	GYRO Y	-	Not Used (GND)
163	GYRO X	-	Not Used (GND)
164	NC	-	Not Used
165	A VREF	I	Reference Voltage
166	A VDD	I	Voltage

Pin No.	Signal Name	I/O	Explanation
167	TDI	I	TEST Serial Data Input
168	TDO	O	TEST Serial Data Output
169	TCK	I	TEST Serial Clock
170	A VSS	-	GND
171	E VSS	-	GND
172	VSS	-	GND
173	TMS	I	TEST Master Clock
174	TRST	I	TEST Reset
175	E VDD	I	Voltage
176	MODE J	I	Mode Select
177	XREADY	I	X Ready Strobe
178	S/S	I	Start/Stop Switch Input
179	ASP3 CS	O	ASP3 Chip Select
180	GUI LED	O	Guide LED Drive
181	LED CNT	O	LED Drive Control
182	ASP2 CS	O	ASP2 Chip Select
183	XRST ARM	O	System Reset
184	TRIG END	-	Not Used
185	CHARGE	-	Not Used
186	ND OPEN	-	GND
187	VDD	I	Voltage
188	C VDD	I	Voltage
189	CK SEL1	I	Clock Select
190	RESET	I	Reset
191	X1	I	OSC In
192	X2	I	OSC In
193	P VSS	-	GND
194	C VSS	-	GND
195	P VDD	I	Voltage
196	PLL SEL	I	PLL Select
197	AFST	O	Process Timing Pulse
198	E2 SDI	I	EEPROM Serial Data In
199	E2 SDO	O	EEPROM Serial Data Out
200	E2 SCK	O	EEPROM Serial Clock
201	CAM T	I	Camera Test
202	NC	-	Not Used
203	MEMO END	O	Memory End
204	NC	-	Not Used
205	WINK END	I	Wink End
206	SHTR CLOSE	-	Not Used
207	VSS	-	GND
208	E VSS	-	GND
209	NC	-	Not Used

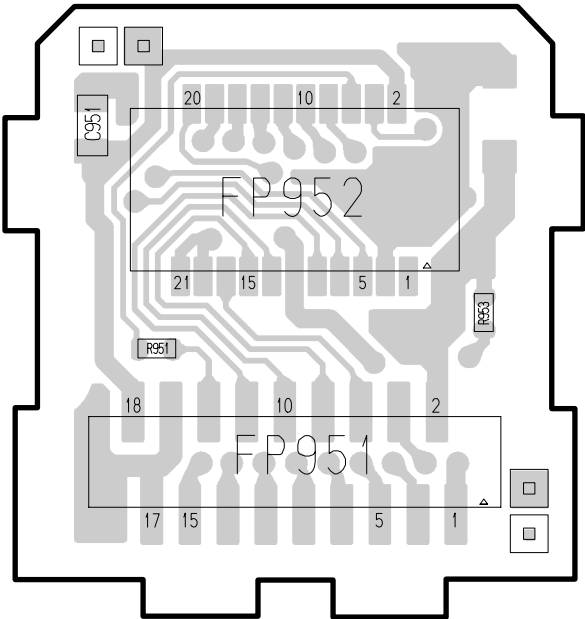




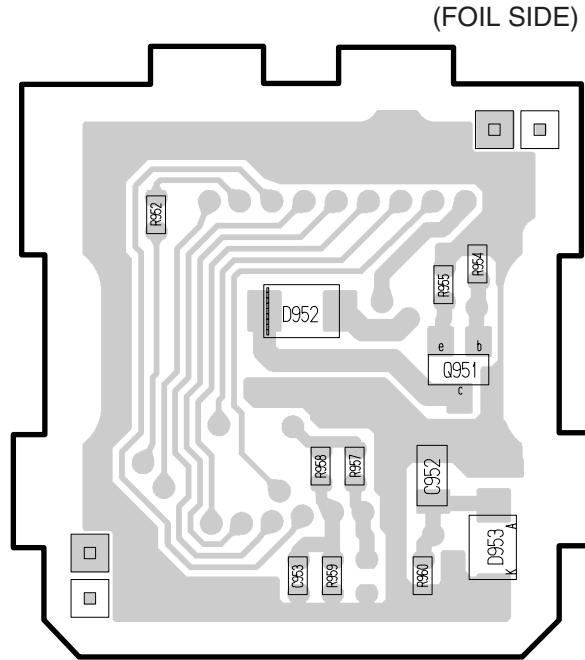
(COMPONENT SIDE)



(FOIL SIDE)

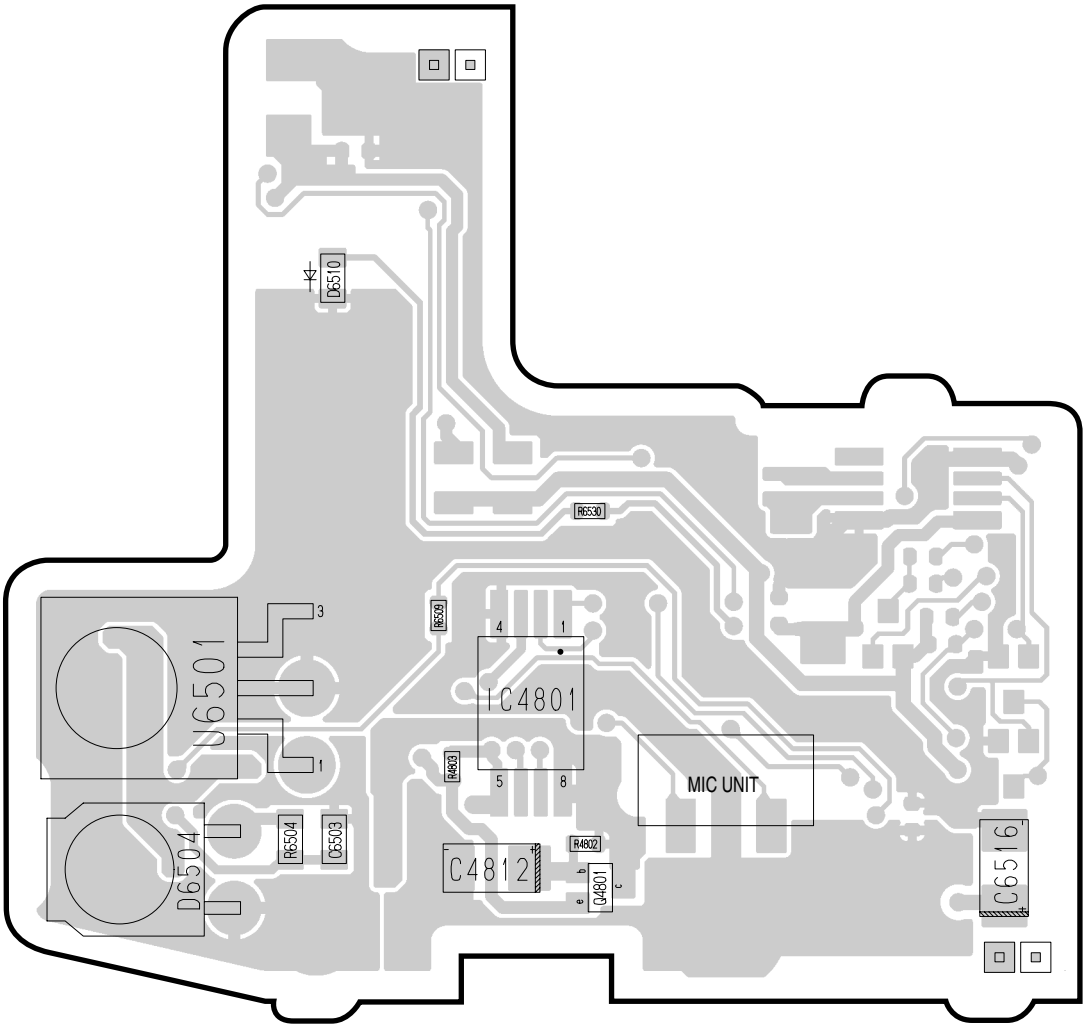


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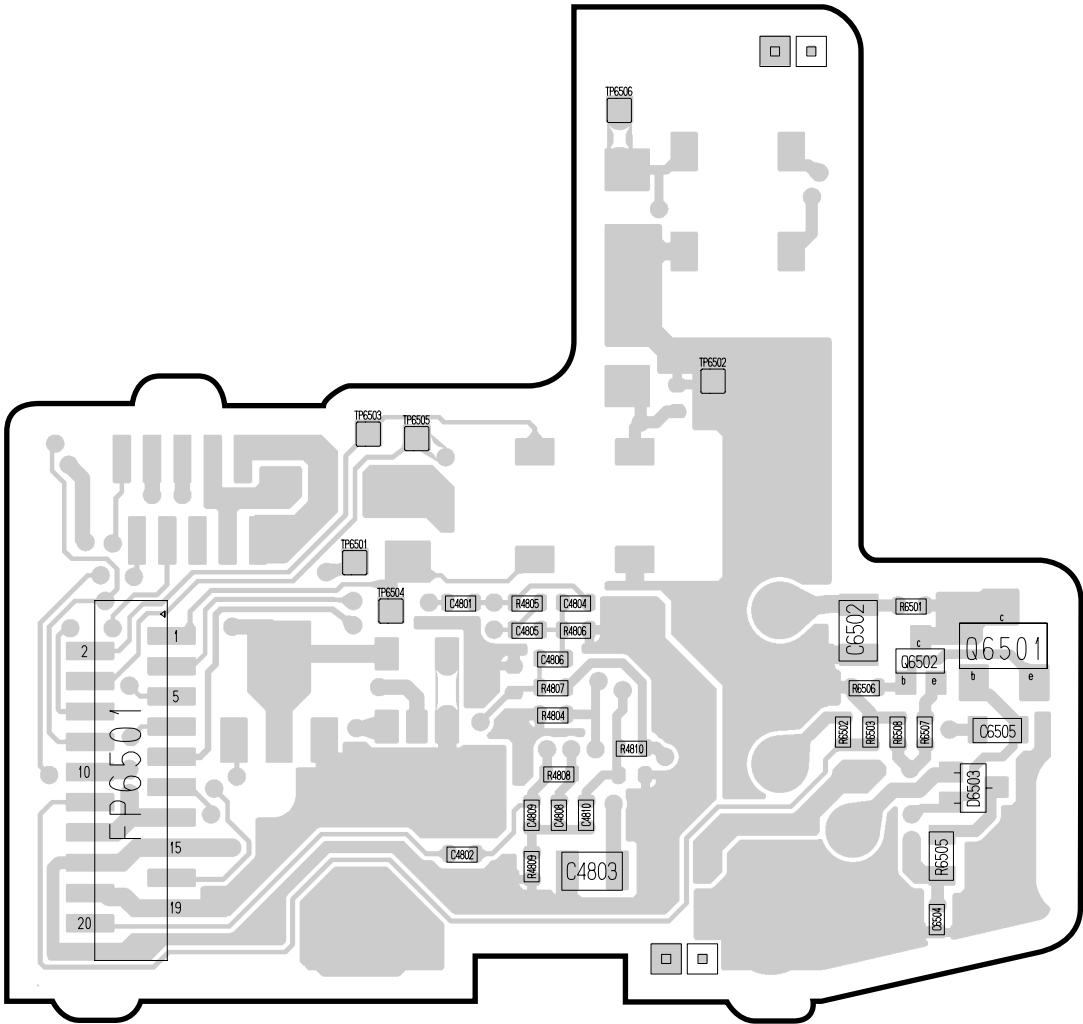


(FOIL SIDE)

(LSEP8344B1)



(COMPONENT SIDE)



(FOIL SIDE)

## MAIN P.C.B.

Integrated circuit			TP3008	B-3	C	L1211	C-7	C	C1103	C-4	F	C3028	C-6	C	C4013	A-6	F	R1131	B-4	F	R3086	D-5	F	R4002	B-8	F
IC1001	C-3	F	TP3009	B-4	C	L1212	C-7	C	C1104	C-4	F	C3029	B-5	C	C4014	A-7	F	R1141	B-3	F	R3087	D-6	F	R4003	B-8	F
IC1002	D-3	F	TP3010	B-4	C	L1213	C-7	C	C1105	C-4	F	C3030	C-6	C	C4502	B-6	F	R1151	D-4	F	R3101	D-5	F	R4004	B-8	F
IC1231	B-6	C	TP3011	C-5	F	L1214	D-7	C	C1108	D-4	F	C3031	C-6	C	C4504	B-6	F	R1161	C-3	F	R3102	D-5	F	R4005	B-8	F
IC3001	D-5	C	TP3012	C-7	C	L1221	B-7	C	C1109	B-3	F	C3032	D-4	C	C4505	B-7	F	R1162	C-3	F	R3103	D-5	F	R4006	B-8	F
IC3201	D-6	C	TP3014	C-6	C	L1222	C-7	C	C1111	C-4	F	C3033	D-6	C	C4509	D-6	F	R1163	C-3	F	R3104	D-5	F	R4007	B-7	F
IC3202	C-3	C	TP3015	C-7	C	L1231	B-2	F	C1121	D-3	F	C3034	D-6	C	C4510	C-6	F	R1191	E-4	F	R3105	D-5	F	R4008	B-8	F
IC3301	C-6	F	TP3017	C-7	C	L1232	B-6	C	C1131	B-4	F	C3035	D-6	C	C4511	D-6	F	R1214	D-7	C	R3106	D-5	F	R4009	B-7	F
IC8002	C-5	F	TP3018	C-6	C	L1234	B-7	C	C1141	C-3	F	C3037	D-6	C	C4512	D-6	F	R1361	B-3	F	R3107	D-5	F	R4010	B-7	F
Transistor			TP3019	B-6	C	L1235	B-3	F	C1151	D-4	F	C3038	B-5	C	C4513	D-6	F	R1362	B-3	F	R3108	D-5	F	R4011	B-7	F
Q1001	E-2	F	TP3020	B-5	C	L1236	B-4	F	C1161	C-3	F	C3039	B-5	C	C4518	C-6	F	R1363	B-3	F	R3109	E-4	F	R4012	B-7	F
Q1002	E-2	F	TP3021	B-4	C	L1251	E-4	F	C1163	C-3	F	C3040	C-6	C	C4519	C-6	F	R1364	B-3	F	R3110	E-4	F	R4013	B-7	F
Q1011	D-2	F	TP3022	D-6	C	L1252	E-3	F	C1164	C-3	F	C3041	C-6	C	C4520	C-6	F	R1365	B-3	F	R3111	E-4	F	R4014	B-7	F
Q1021	D-1	F	TP3023	D-6	C	L1261	B-3	F	C1191	E-4	F	C3042	C-6	C	C8004	C-5	F	R1367	B-3	F	R3112	E-5	F	R4015	B-7	F
Q1022	D-1	F	TP3027	E-4	C	L1271	B-3	F	C1211	C-7	C	C3043	D-6	C	C8005	C-5	F	R1403	D-4	F	R3113	E-5	F	R4017	A-6	F
Q1031	B-1	F	TP3029	D-3	C	L1281	D-4	F	C1212	C-7	C	C3044	D-6	C	C8007	C-5	F	R1405	D-4	F	R3114	E-5	F	R4018	A-6	F
Q1032	B-1	F	TP3901	E-2	F	L1291	D-3	F	C1213	D-7	C	C3045	D-5	C	C8009	B-4	F	R1411	E-7	C	R3115	E-5	F	R4019	A-6	F
Q1041	C-2	F	TP3903	B-2	C	L3001	B-6	C	C1214	E-7	C	C3046	D-5	C	C8010	B-4	F	R1412	E-6	C	R3116	E-5	F	R4020	A-6	F
Q1042	C-2	F	TP3904	B-2	C	L3002	B-6	C	C1218	D-7	C	C3047	D-6	C	C8011	B-4	F	R1413	E-6	C	R3117	D-6	F	R4021	B-7	F
Q1051	D-2	F	TP3905	D-7	F	L3003	D-6	C	C1219	E-7	C	C3048	D-5	C	C8012	B-4	F	R1414	E-6	C	R3118	D-6	F	R4022	B-7	F
Q1052	D-1	F	TP3906	B-8	F	L3004	D-6	C	C1221	B-7	C	C3049	D-5	C	C8013	A-4	F	R1431	D-7	C	R3119	E-5	F	R4501	B-6	F
Q1061	C-3	F	TP3907	B-8	F	L3005	B-6	C	C1222	C-7	C	C3050	D-5	C	C8014	A-4	F	R1432	D-7	C	R3120	E-5	F	R4504	C-6	F
Q1071	C-2	F	TP3908	B-8	F	L3006	D-4	C	C1224	B-7	C	C3051	D-4	C	C8015	B-4	F	R1461	A-3	F	R3121	E-5	F	R4505	C-6	F
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Q1102	D-4	F	TP8003	C-4	F	L3301	C-8	F	C1232	B-6	C	C3055	D-4	C	C8032	A-5	F	R3001	D-4	C	R3125	E-5	F	R8002	C-5	F
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Q1362	B-3	F	Connector			L4501	B-6	F	C1235	A-3	F	C3057	D-5	C	R1001	E-2	F	R3005	D-3	C	R3127	D-5	F	R8006	B-5	F
Q1411	D-7	C	B1	D-5	F	L4502	B-6	F	C1236	A-4	F	C3058	D-4	C	R1002	E-3	F	R3006	D-4	C	R3128	D-5	F	R8007	B-5	F
Q1412	E-6	C	B2	B-9	F	L4503	D-6	F	C1237	A-4	F	C3059	D-4	C	R1003	E-3	F	R3008	D-5	C	R3129	D-5	C	R8008	B-5	F
Q1413	E-6	C	B3	B-2	C	L4504	C-5	F	C1251	E-4	F	C3060	D-4	C	R1009	D-3	F	R3009	D-5	C	R3131	B-4	C	R8009	B-5	F
Q1414	E-7	C	B4	B-4	C	L8001	D-5	F	C1252	E-3	F	C3061	D-4	C	R1010	D-2	F	R3010	E-5	C	R3132	B-4	C	R8010	B-5	F
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Q1462	B-3	F	FP3	E-8	C	C2	D-6	F	C1261	B-3	F	C3064	D-4	C	R1013	C-4	F	R3013	D-3	C	R3135	C-6	C	R8014	C-4	F
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Q4001	B-6	F	FP5	E-6	C	C1002	D-2	F	C1281	C-4	F	C3066	C-4	C	R1021	D-3	F	R3015	D-3	C	R3137	B-4	C	R8016	C-4	F
Q4002	B-8	F	Fuse			C1003	D-9	C	C1291	D-3	F	C3067	E-5	C	R1022	D-3	F	R3016	D-4	C	R3138	D-6	C	R8017	C-4	F
Q4003	B-8	F	IP1	D-8	C	C1004	D-9	C	C1292	D-2	F	C3068	C-6	C	R1023	D-3	F	R3017	D-4	C	R3140	C-6	C	R8018	A-5	F
Q4004	B-7	F	IP2	D-8	C	C1005	D-8	C	C1401	D-4	F	C3201	B-3	C	R1024	D-3	F	R3022	B-3	C	R3141	B-6	C	R8019	A-5	F
Q4005	B-7	F	IP3	D-8	C	C1006	D-8	C	C1402	D-4	F	C3203	D-6	C	R1030	C-2	F	R3023	B-3	C	R3142	B-4	C	R8020	B-5	F
Q4007	B-6	F	Diode			C1011	D-2	F	C1403	D-4	F	C3204	D-3	C	R1031	B-4	F	R3024	C-4	C	R3143	B-4	C	R8022	A-4	F
Q4008	A-6	F	D1001	E-3	F	C1012	C-2	F	C1404	D-4	F	C3205	C-2	C	R1032	B-4	F	R3026	C-4	C	R3144	B-4	C	R8023	A-5	F
Q8001	A-5	F	D1003	E-2	F	C1013	C-4	F	C1405	D-4	F	C3206	C-3	C	R1033	B-4	F	R3027	B-3	C	R3145	D-5	C	R8026	A-5	F
Q8002	A-5	F	D1009	D-8	C	C1021	C-2	F	C1409	D-3	F	C3207	D-3	C	R1041	B-3	F	R3028	C-3	C	R3146</					



## SUB P.C.B.

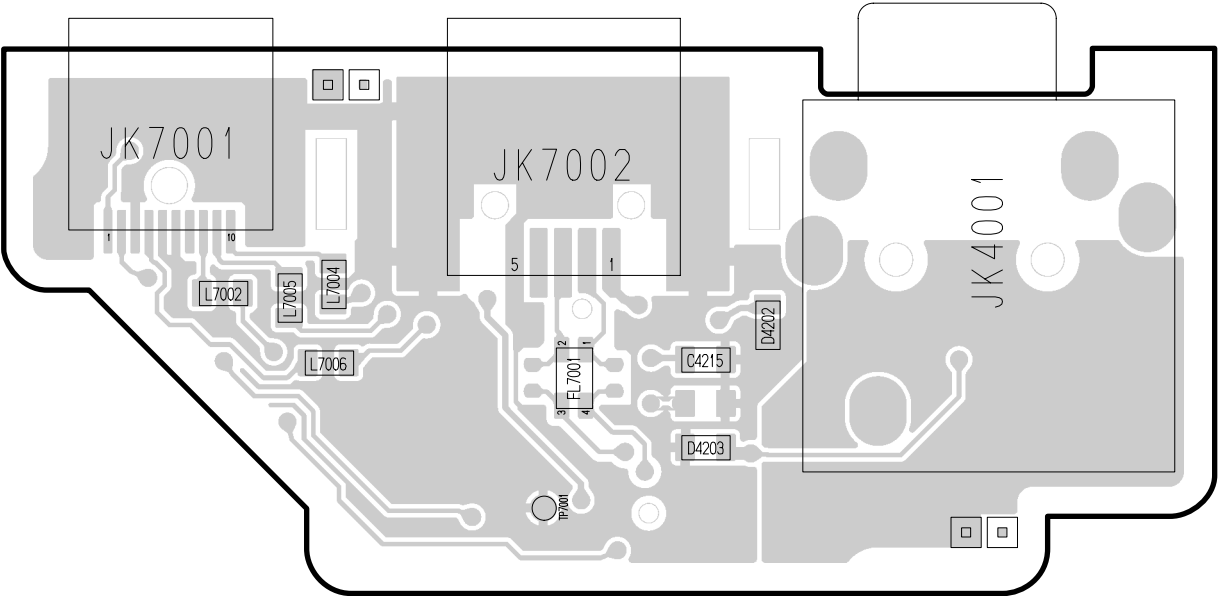
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IC101	C-2	F	CL2007	B-6	F	L1331	B-5	C	C1223	A-7	C	R123	D-2	F	R1473	A-4	C	R2078	B-4	F
IC102	B-2	F	CL2008	B-6	F	L2001	B-4	F	C1233	B-3	C	R124	D-7	C	R1476	A-4	C	R2079	B-4	F
IC103	A-2	F	CL2009	D-6	F	L2002	B-3	F	C1331	A-6	C	R125	D-7	C	R1477	A-4	C	R2080	B-6	C
IC104	D-7	C	CL2010	D-6	F	LB104	A-2	F	C1332	B-5	C	R126	D-6	C	R1478	A-4	C	R2081	B-8	C
IC105	C-7	C	CL2011	C-6	F	LB301	B-5	C	C1333	B-5	C	R128	D-2	F	R2001	A-6	C	R2083	D-3	F
IC106	C-6	C	CL2020	D-4	F	Capacitor			C1334	B-5	C	R129	D-2	F	R2002	D-4	F	R2084	B-7	C
IC107	D-2	F	CL2021	D-4	F	C102	E4	F	C1335	A-4	C	R130	D-2	F	R2003	D-4	F	R2085	C-4	F
IC108	D-3	F	CL2022	B-7	F	C101	A-8	C	C1371	A-4	C	R131	D-4	F	R2006	B-6	C	R2086	C-4	F
IC110	D-2	F	CL2023	B-4	F	C104	C-1	F	C1472	A-4	C	R132	C-3	F	R2007	D-4	F	R2087	B-7	C
IC303	C-4	C	CL2024	D-4	F	C105	B-2	F	C1473	A-3	C	R133	B-1	F	R2008	B-9	C	R2088	C-3	F
IC701	C-7	F	CL2025	B-6	C	C106	D-8	C	C2004	A-6	C	R134	C-7	C	R2009	B-6	C	R2089	C-6	F
IC1331	A-6	C	CL2026	B-7	C	C107	E-4	F	C2005	B-6	C	R135	C-7	C	R2010	B-7	C	R2090	B-7	C
IC1332	A-5	C	CL2027	C-6	F	C108	E-2	F	C2006	B-7	C	R145	B-3	F	R2011	B-6	C	R2091	B-7	C
IC2001	B-6	C	CL2028	D-4	F	C109	E-7	C	C2007	B-5	F	R146	C-3	F	R2012	B-7	C	R2092	B-4	F
IC2002	B-6	C	CL6001	B-9	C	C111	E-1	F	C2008	D-5	F	R147	D-3	F	R2013	B-6	C	R2093	A-7	F
IC2004	B-7	C	CL6002	C-9	C	C112	A-9	C	C2009	D-6	F	R148	D-3	F	R2015	B-7	C	R2094	D-5	F
IC2005	C-6	F	CL6003	C-8	C	C113	B-2	F	C2010	B-7	C	R301	C-3	C	R2016	B-3	F	R2095	C-6	F
IC2006	C-5	F	CL6004	C-8	F	C114	B-2	F	C2011	B-7	C	R302	C-5	C	R2017	B-6	C	R2096	B-5	F
IC2007	B-6	F	CL6005	C-6	F	C115	B-2	F	C2012	B-3	F	R303	B-4	C	R2018	B-3	F	R2097	D-6	F
Transistor			CL6006	C-6	F	C118	D-7	C	C2013	B-3	F	R304	B-4	C	R2019	B-3	F	R2100	B-6	C
Q701	C-6	F	CL6007	D-6	F	C119	E-3	F	C2014	B-3	F	R307	C-3	C	R2020	B-3	F	R2101	B-6	C
Q1371	A-6	C	CL6008	C-6	F	C120	D-7	C	C2015	C-3	F	R308	C-3	C	R2021	B-3	F	R2102	B-8	C
Q1372	A-6	C	CL6009	B-5	F	C121	D-7	C	C2016	C-3	F	R309	C-5	C	R2022	C-3	F	R2103	D-5	F
Q1391	A-8	C	CL6010	B-6	F	C123	D-7	C	C2017	C-4	F	R310	B-3	C	R2023	C-3	F	R2104	D-4	F
Q1392	B-8	C	CL6013	D-8	F	C124	D-7	C	C2018	C-4	F	R312	B-3	C	R2024	D-4	F	R2105	D-5	F
Q1471	A-5	C	CL6014	D-8	F	C125	D-7	C	C2019	B-4	F	R314	B-4	C	R2028	C-6	F	R2106	C-3	F
Q1472	A-4	C	CL6015	D-7	F	C127	D-6	C	C2020	B-5	F	R317	C-5	C	R2030	C-3	F	R2108	A-7	F
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Q2002	B-3	F	CL6017	D-7	F	C129	E-8	C	C2022	B-4	F	R322	B-3	C	R2032	B-3	F	R2111	B-4	F
Q2003	B-7	C	RL301	C-5	C	C130	E-2	F	C2023	D-3	F	R332	B-3	C	R2033	B-3	F	R2114	B-6	F
Q2004	B-5	C	RL302	B-5	C	C131	D-4	F	C2025	C-3	F	R347	C-5	C	R2034	D-4	F	R2117	B-7	C
Q2005	B-8	C	RL303	B-4	C	C132	D-6	C	C2026	D-5	F	R385	B-3	C	R2035	B-4	F	R2118	B-8	C
Q2006	B-8	C	RL305	B-4	C	C133	D-3	F	C2027	C-6	F	R386	A-4	C	R2036	C-4	F	R2119	C-4	F
QR701	C-2	C	RL306	B-4	C	C142	E-5	F	C2028	B-6	F	R701	C-9	F	R2037	B-4	F	R2121	B-6	F
QR1471	A-6	C	RL307	B-3	C	C143	E-3	F	C2029	B-6	F	R702	C-7	F	R2038	C-4	F	R2122	D-6	F
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QR2004	B-7	F	Connector			C152	C-6	C	C2036	B-7	C	R711	D-8	F	R2044	B-4	F	R2127	B-4	F
QR2005	B-9	C	FP701	D-2	C	C154	E-4	F	C2037	B-6	C	R715	C-2	C	R2045	D-5	F	R2128	B-4	F
QR2006	D-4	F	FP6001	D-6	C	C156	B-3	F	C2038	B-7	C	R718	C-7	F	R2046	B-5	F	R2129	C-4	F
QR2007	B-9	C	PS6001	A-5	F	C160	E-2	F	C2040	B-8	C	R721	B-7	F	R2047	D-5	F	R2130	D-4	F
QR2008	B-9	C	PS6002	D-4	C	C161	A-2	F	C2041	B-4	F	R724	C-8	F	R2048	D-5	F	R2131	D-4	F
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QR2010	B-8	C	Diode			C304	C-3	C	C2044	B-4	F	R727	C-8	F	R2050	B-4	F	R2133	B-8	C
Test Point			D101	E-4	F	C305	C-5	C	C2045	D-4	F	R728	B-7	F	R2051	D-5	F	R6001	D-5	C
CL101	B-3	F	D102	E-7	C	C306	C-3	C	C2048	C-4	F	R729	C-8	F	R2052	B-4	F	R6002	D-5	C
CL102	B-1	F	D1471	A-7	C	C309	C-5	C	C2049	A-7	F	R730	C-8	F	R2053	C-6	F	RX1471	A-5	C
CL103	C-1	F	D1472	A-7	C	C310	C-3	C	C2050	B-4	F	R731	B-8	F	R2054	D-6	F			
CL104	C-1	F	D2001	E-5	F	C315	C-5	C	C2051	C-3	F	R732	C-8	F	R2055	B-5	F			
CL301	B-3	C	D2002	B-8	C	C322	B-5	C	C2052	B-8	C	R733	B-8	F	R2056	D-6	F			
CL302	B-4	C	D2003	B-8	C	C324	B-5	C	CX101	D-7	C	R734	C-8	F	R2057	D-6	F			
CL303	B-4	C	D2004	B-4	F	C343	B-4	C	CX102	C-7	C	R741	C-2	C	R2058	D-5	F			
CL309	B-4	C	Filter			C701	D-8	F	CX103	C-5	C	R752	B-7	F	R2059	D-6	F			
CL310	B-3	C	FL101	A-2	F	C702	C-7	F	Resistor			R753	B-7	F	R2060	D-6	F			
CL311	B-4	C	FL102	D-1	F	C703	C-8	F	R101	E-2	F	R760	B-7	F	R2061	D-6	F			
CL312	B-3	C	Crystal Oscillator			C705	C-8	F	R103	E-2	F	R761	B-7	F	R2062	D-6	F			
CL318	B-4	C	X101	B-2	F	C709	C-6	F	R104	E-2	F	R1371	A-6	C	R2063	D-5	F			
CL701	B-7	F	X2001	B-7	C	C710	C-7	F	R105	C-8	C	R1372	A-7	C	R2064	D-6	F			
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CL1331	B-4	F	Coil			C712	C-8	F	R108	B-3	F	R1374	A-7	C	R2066	B-7	C			
CL1332	B-3	C	L101	E-7	C	C713	C-7	F	R109	E-2	F	R1375	A-6	C	R2067	D-5	F			
CL1371	E-4	F	L102	C-8	C	C714	C-8	F	R112	C-3	F	R1376	A-5	C	R2068	D-6	F			
CL1391	E-7	C	L104	E-3	F	C716	C-8	F	R113	B-2	F	R1391	A-8	C	R2069	D-6	F			
CL2001	B-6	C	L105	E-7	C	C717	C-7	F	R114	C-3	F	R1392	A-8	C	R2070	B-6	F			
CL2002	C-6	F	L301	B-5	C	C718	B-7	F	R115	E-3	F	R1393	A-8	C	R2071	B-6	F			
CL2003	D-5	F	L303	B-4	C	C719	C-8	F	R116	E-3	F	R1394	A-8	C	R2073	B-6	F			
CL2004	B-6	F	L306	B-5	C	C720	B-7	F	R120	D-2	F	R1395	A-7	C	R2074	B-6	F			
CL2005	B-6	F	L1223	A-7	C	C723	C-7	F	R121	D-2	F	R1471	A-4	C	R2076	B-6	F			

ADDRESS INFORMATION

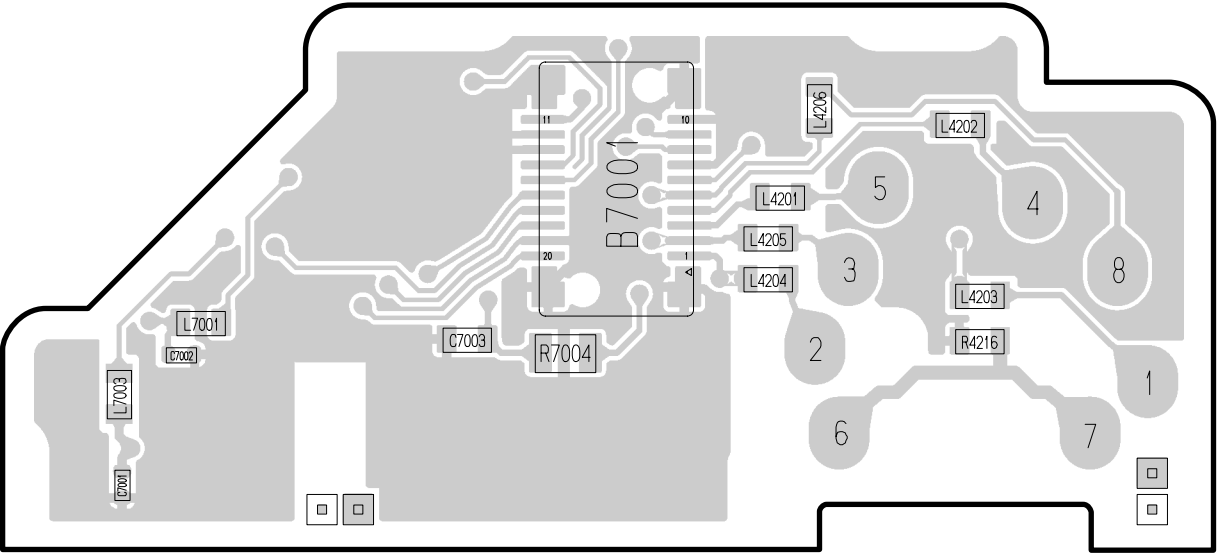
C\_\_COMPONENT SIDE

F\_\_FOIL SIDE

(LSEP8345A1)



(COMPONENT SIDE)



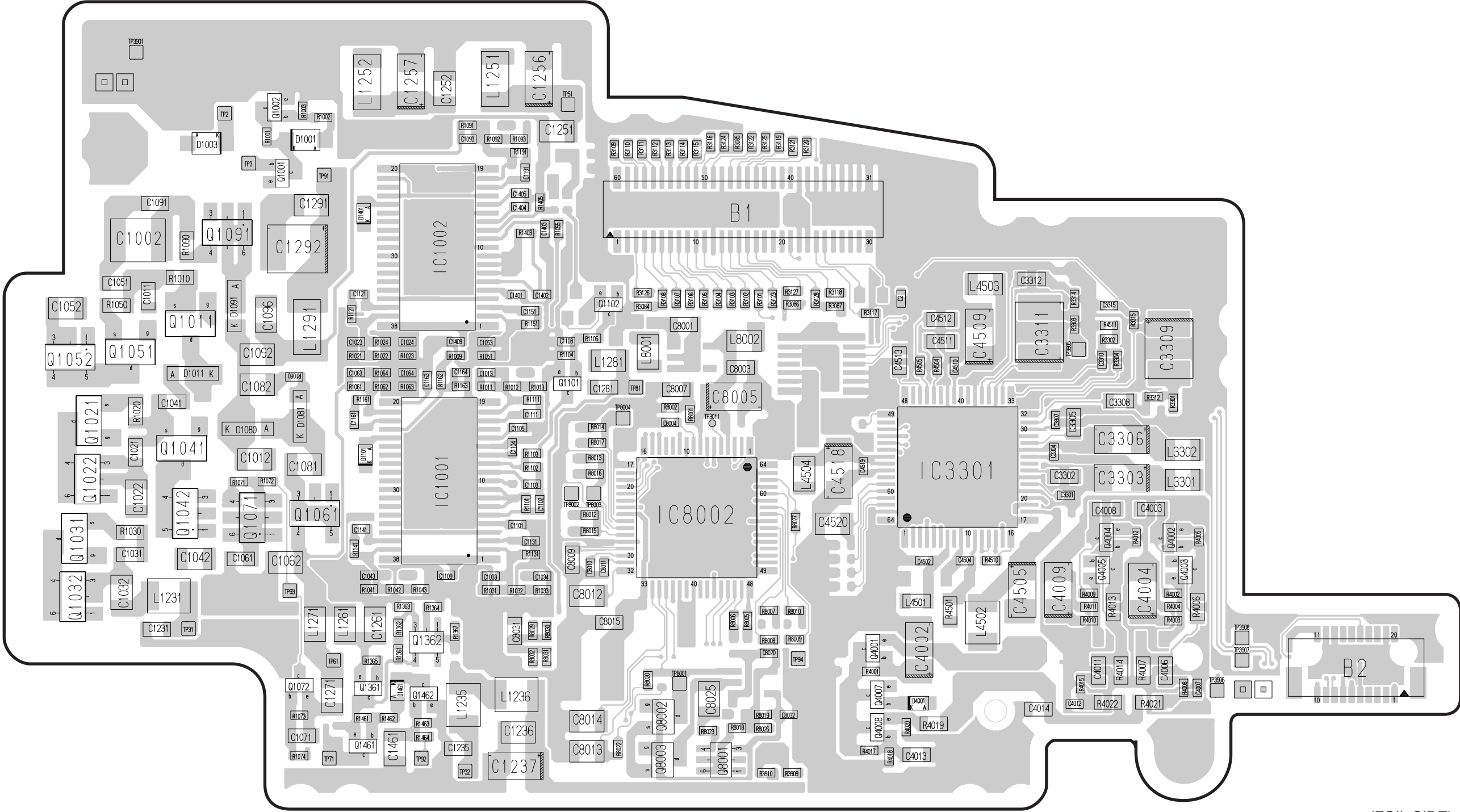
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COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

VDR-D250P/PC  
MAIN P.C.B.

(LSEP8342C1FZ)

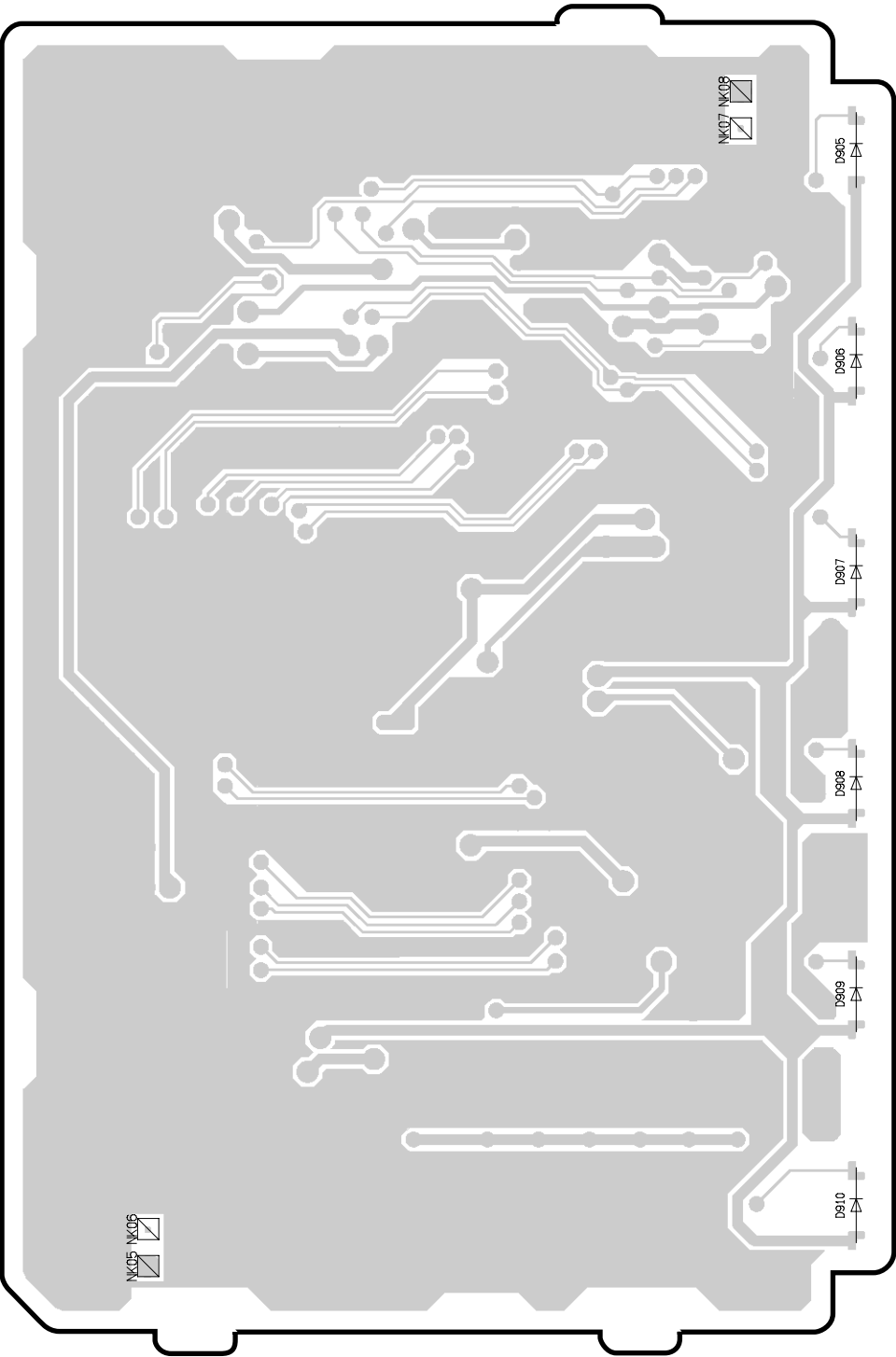
NOTE: MULTILAYER C.B.A.  
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



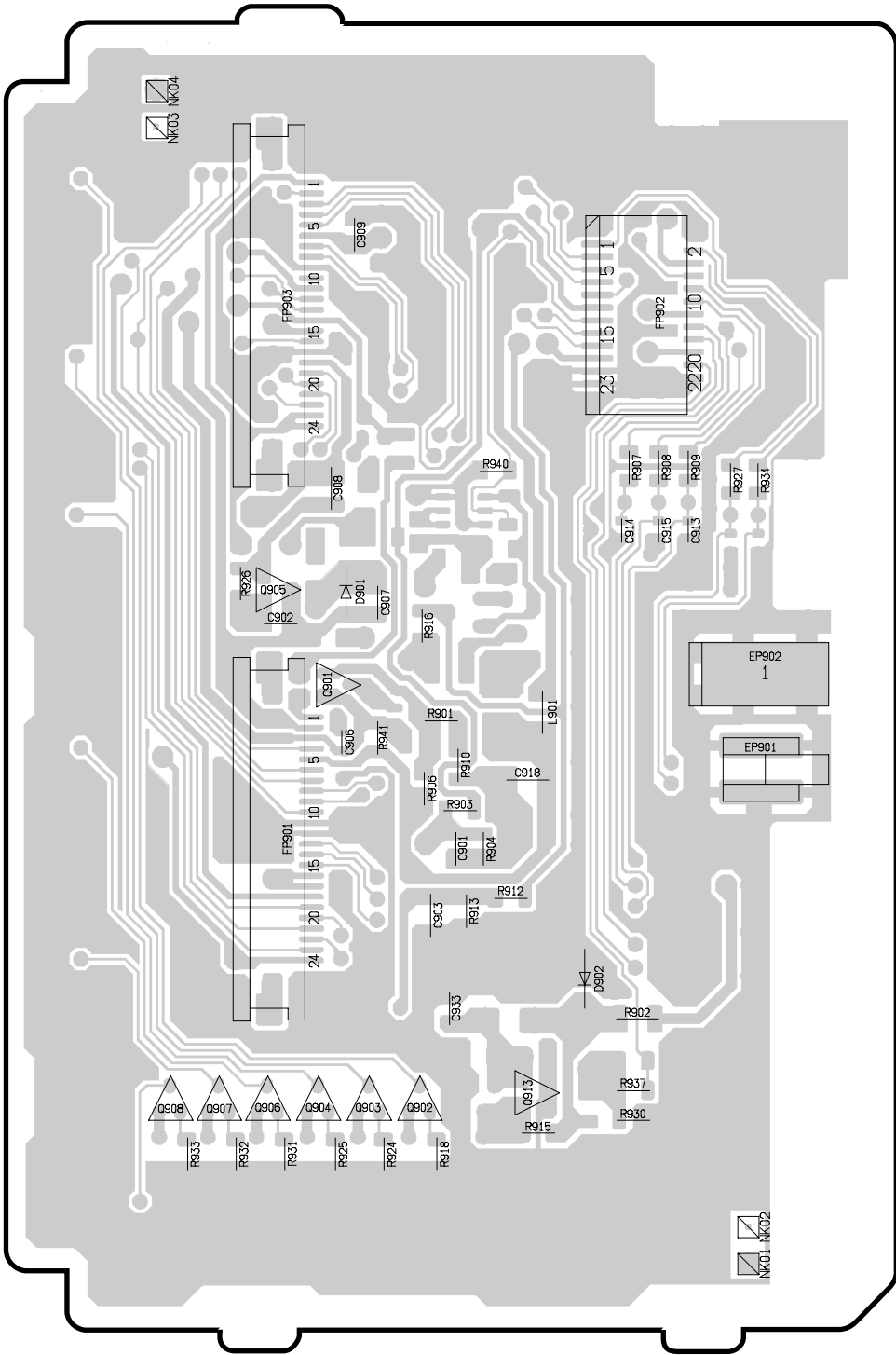
(FOIL SIDE)

VDR-D250P/PC  
MAIN P.C.B.

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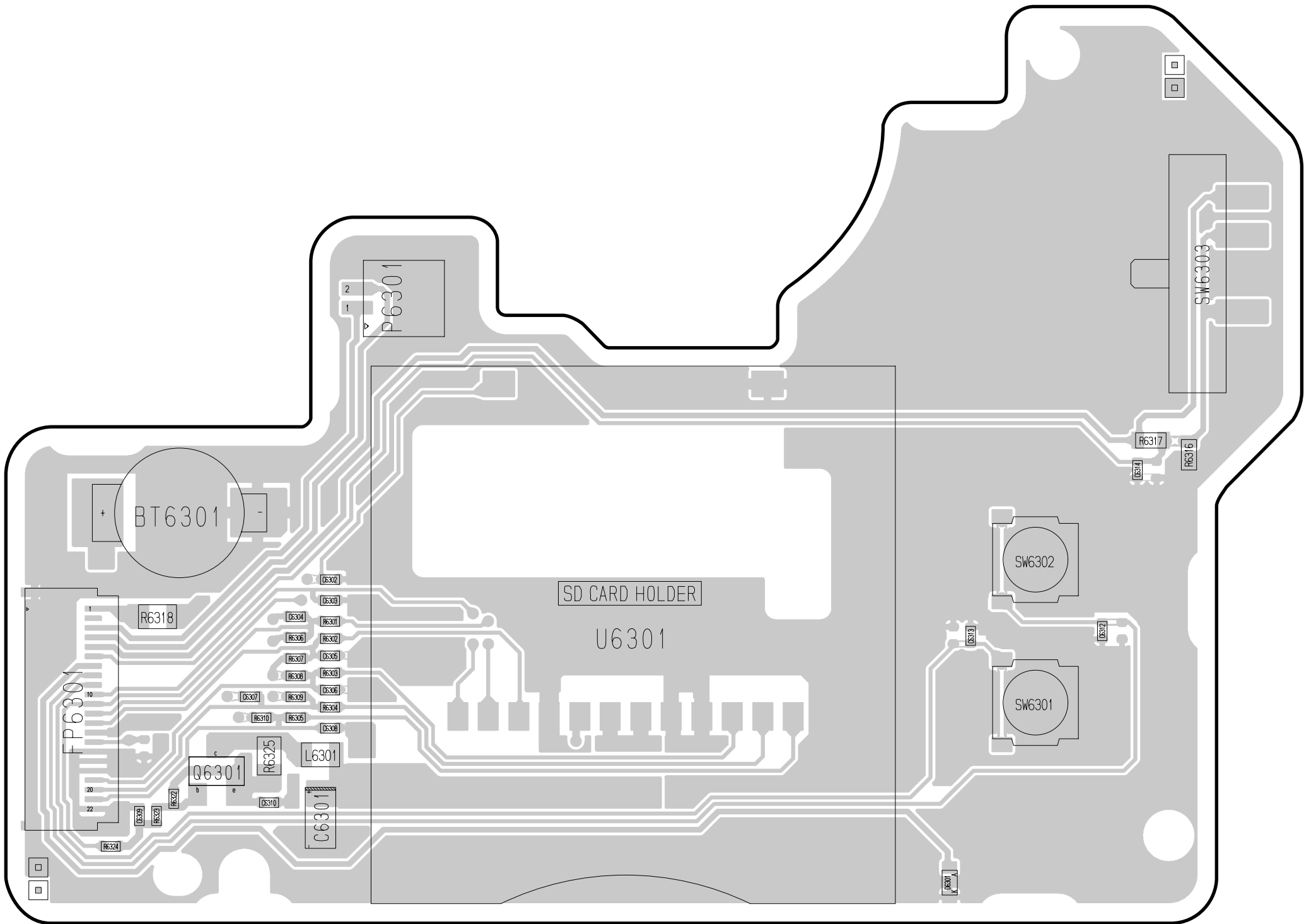


(COMPONENT SIDE)



(FOIL SIDE)

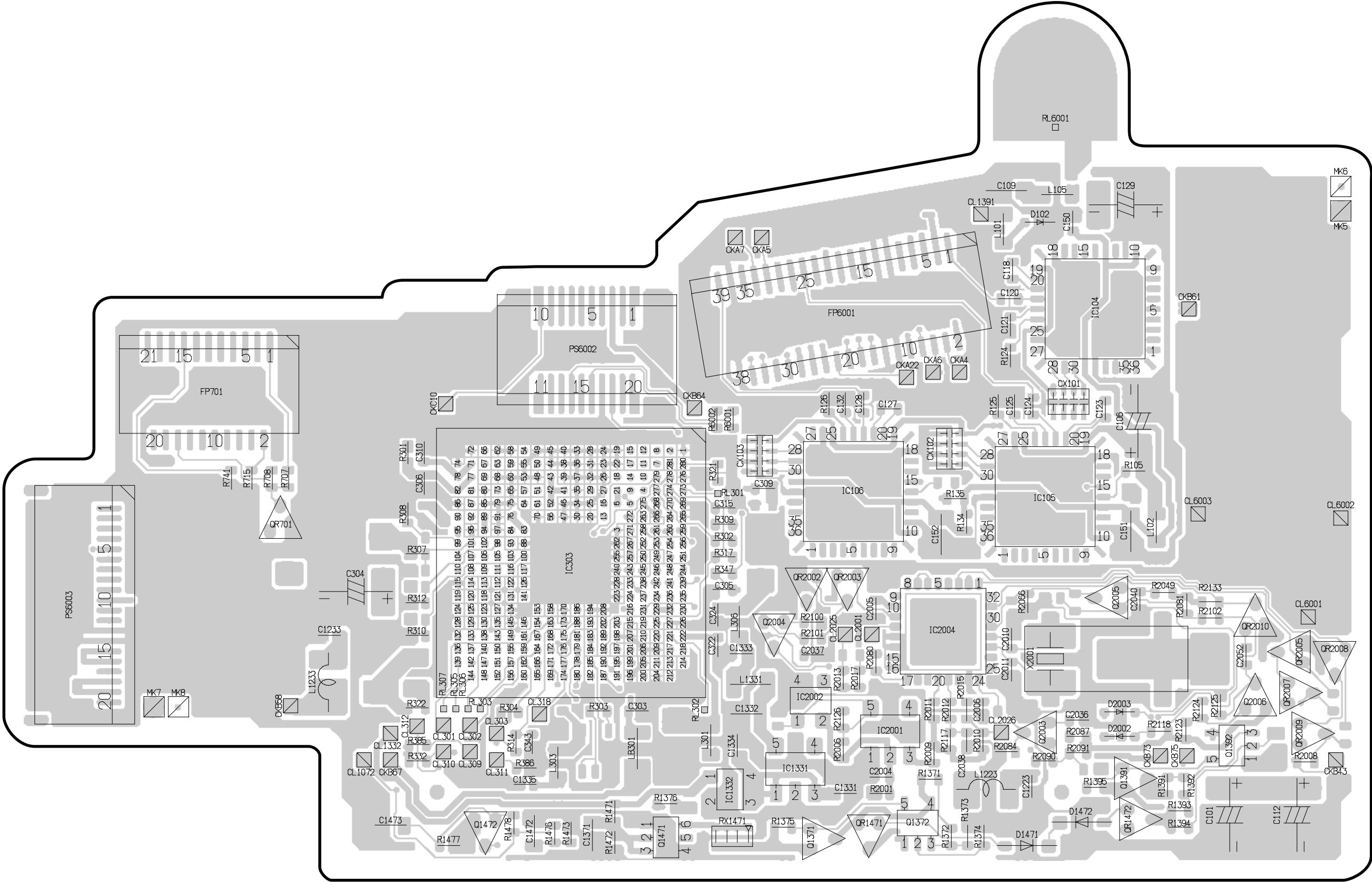
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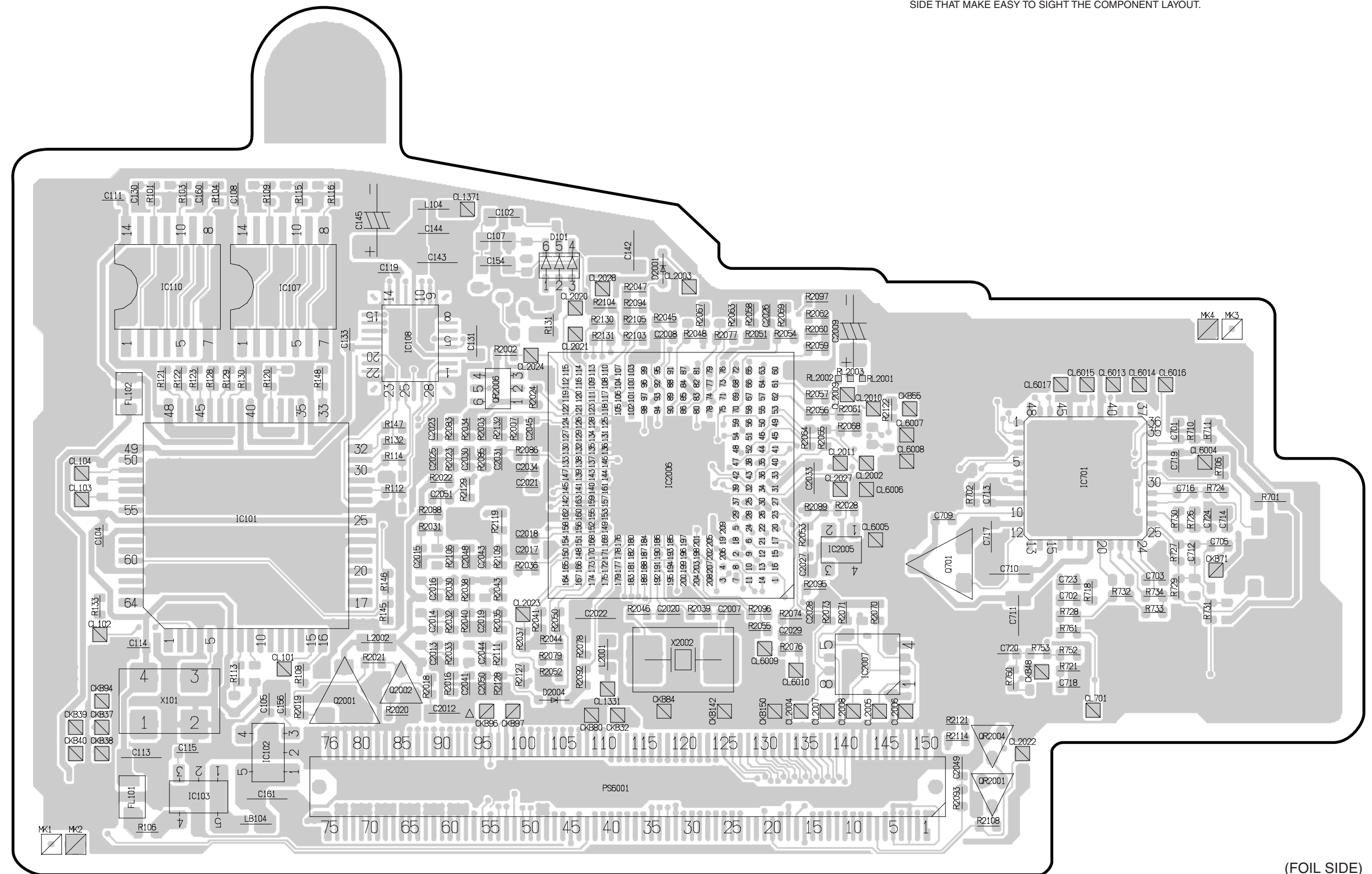
1 2 3 4 5 6 7 8

NOTE: MULTILAYER C.B.A.  
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.





NOTE: MULTI-LAYER C.B.A. THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



VDR-D250P/PC  
SUB P.C.B.



(MAIN P.C.B.)  
REFER TO MAIN CONNECTION

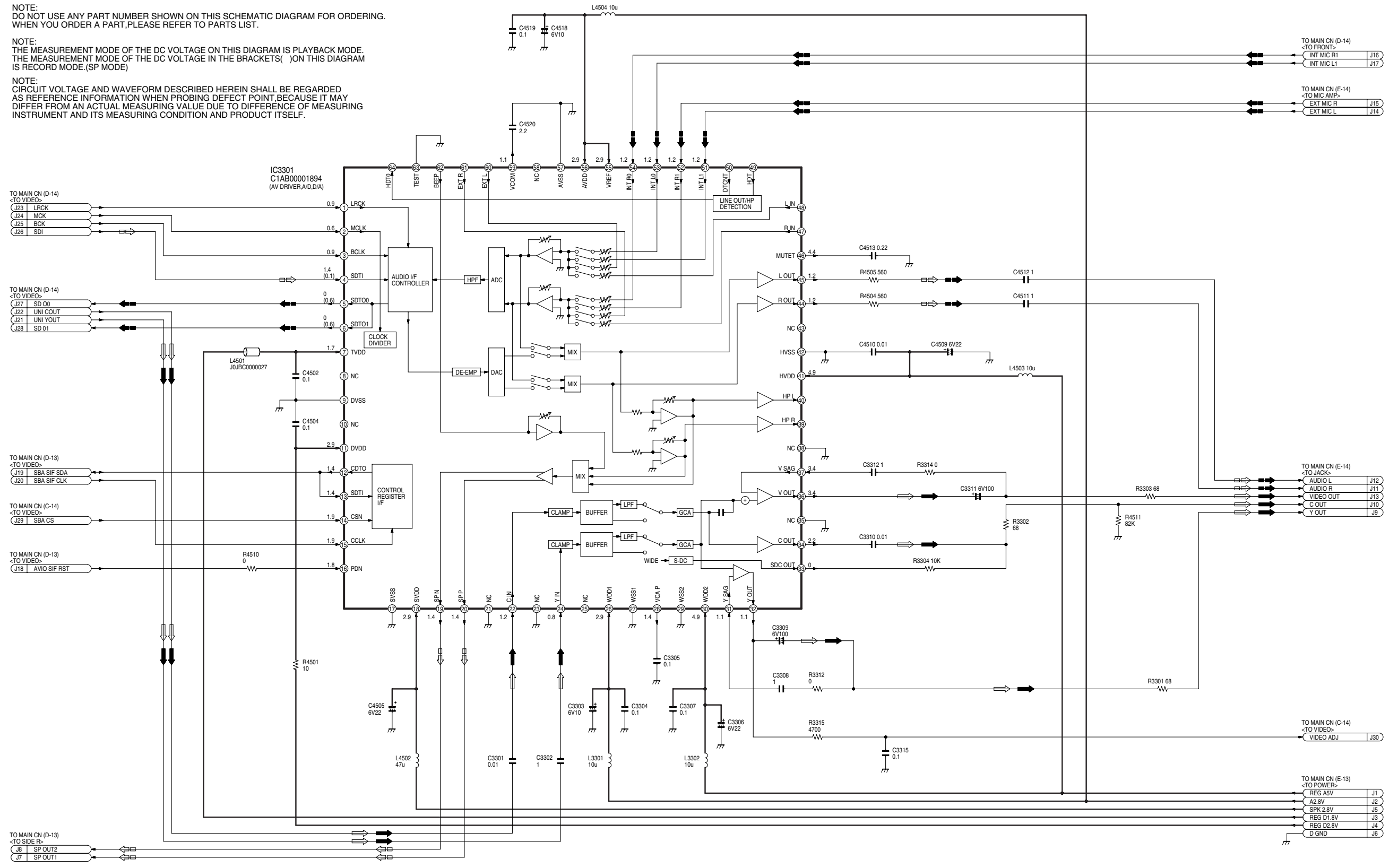
➡ : VIDEO MAIN SIGNAL PATH IN REC MODE  
➡ : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE  
➡ : AUDIO MAIN SIGNAL PATH IN REC MODE  
➡ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

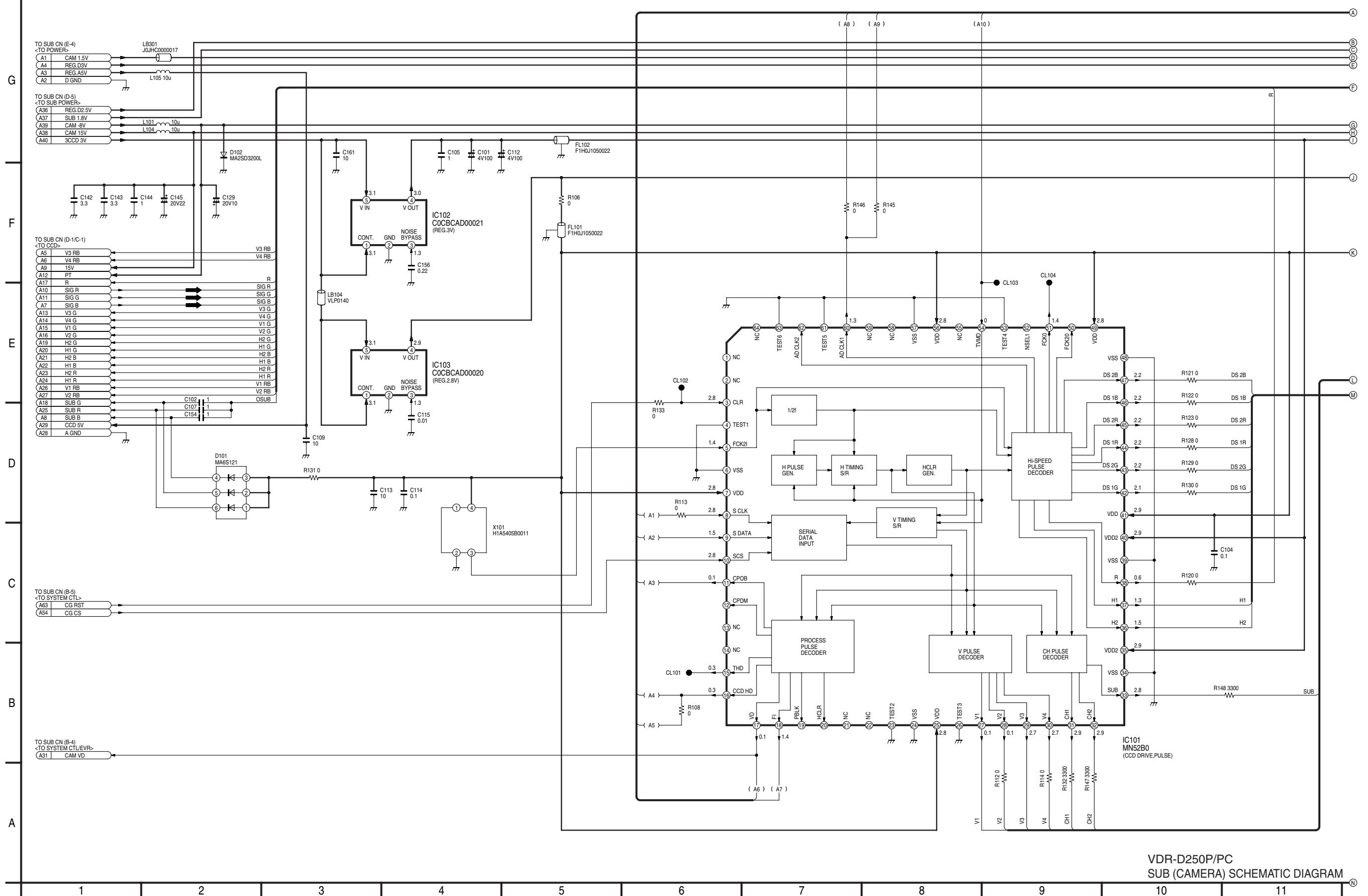
NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

G  
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VDR-D250P/PC  
MAIN (AVIO) SCHEMATIC DIAGRAM

(SUB P.C.B.)  
REFER TO SUB CONNECTION

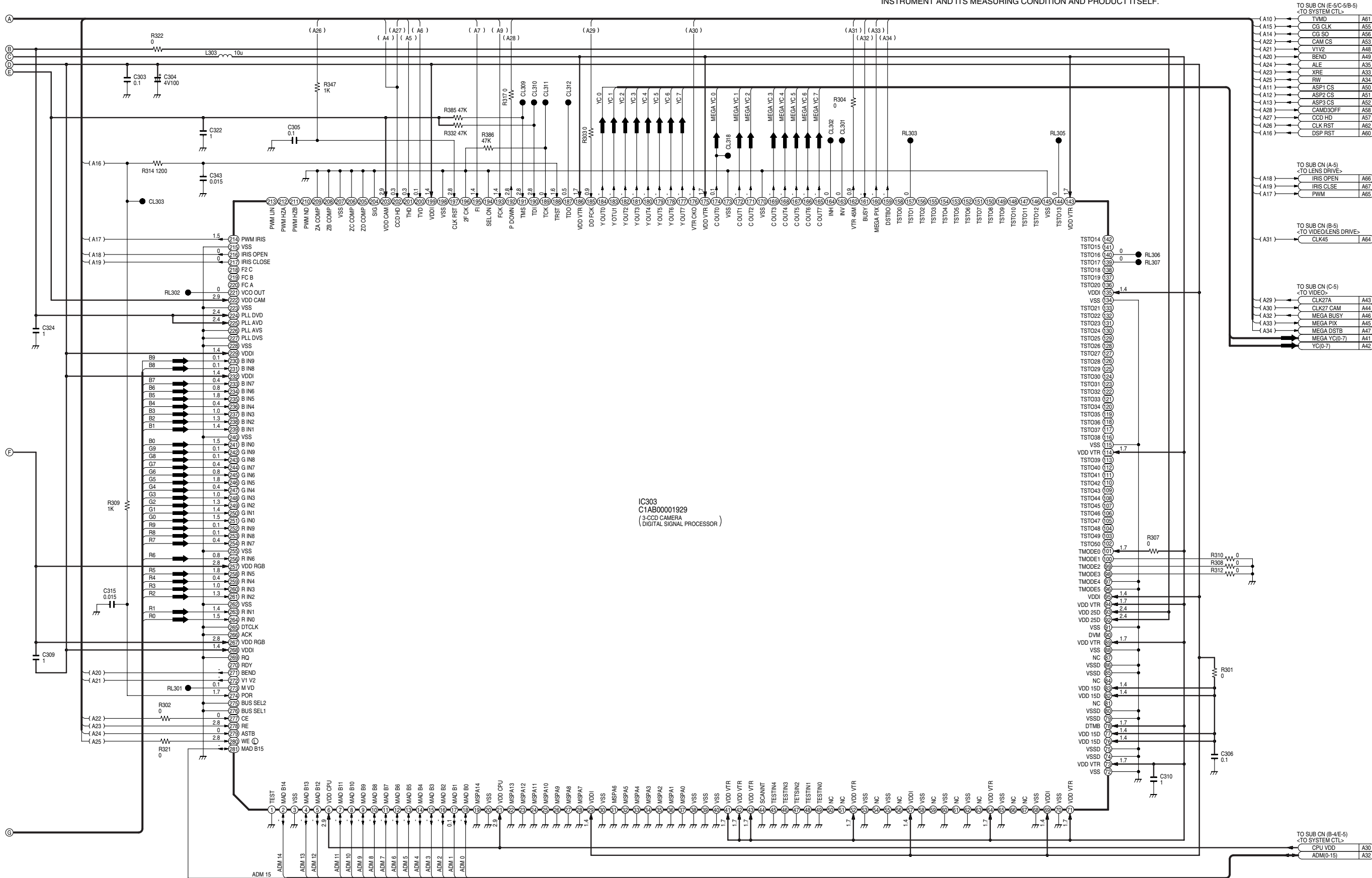




NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

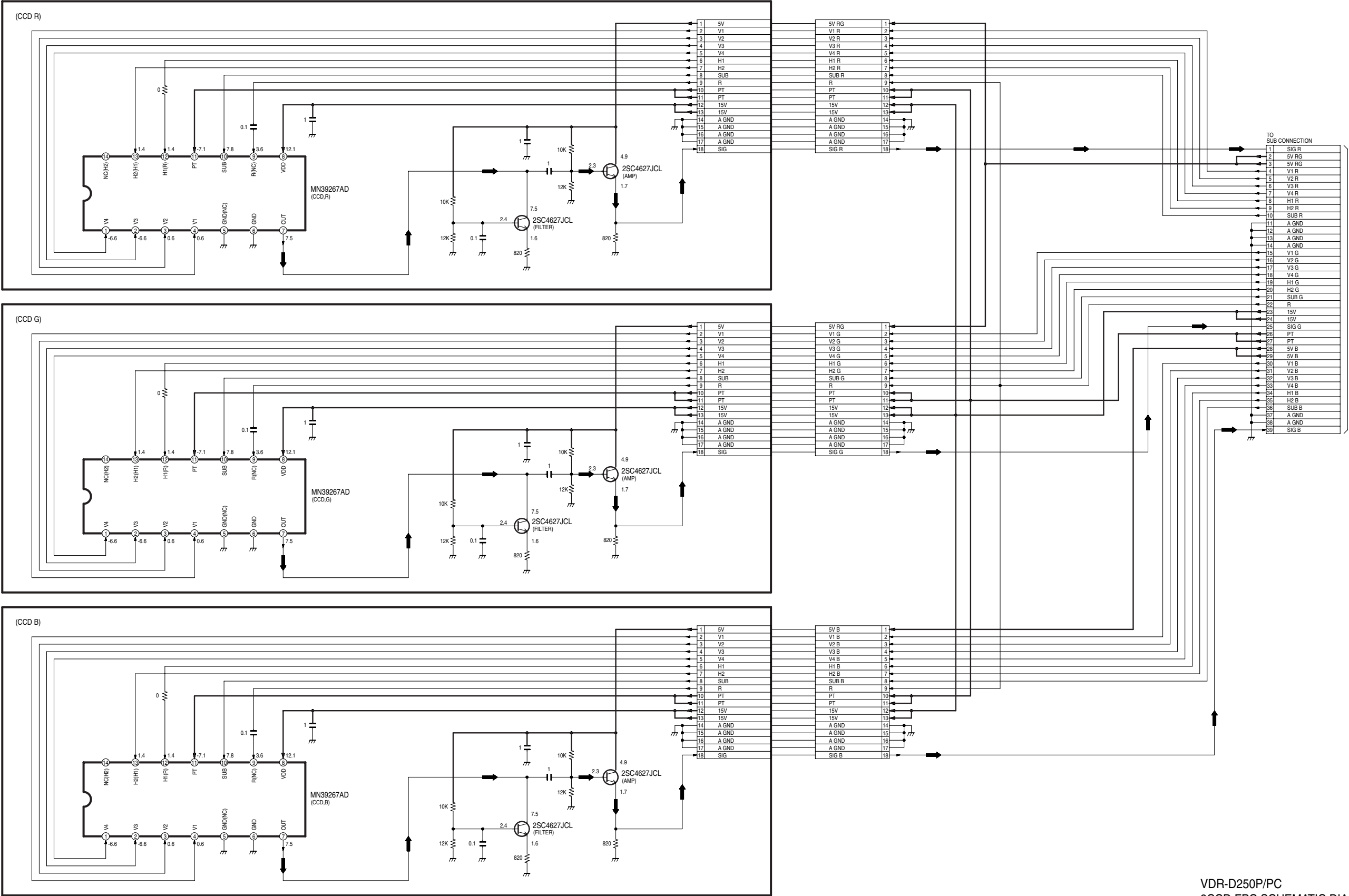
NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.



VDR-D250P/PC SUB (CAMERA) SCHEMATIC DIAGRAM

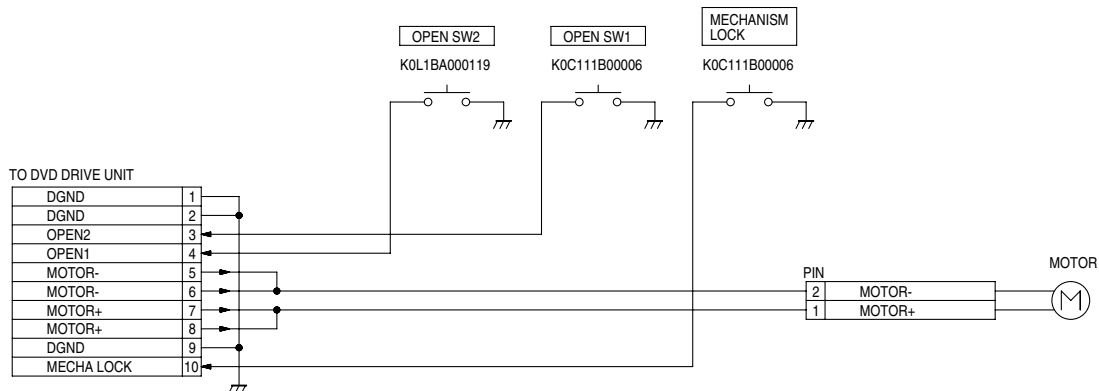
VDR-D250P/PC SUB (CAMERA) SCHEMATIC DIAGRAM



VDR-D250P/PC  
3CCD FPC SCHEMATIC DIAGRAM

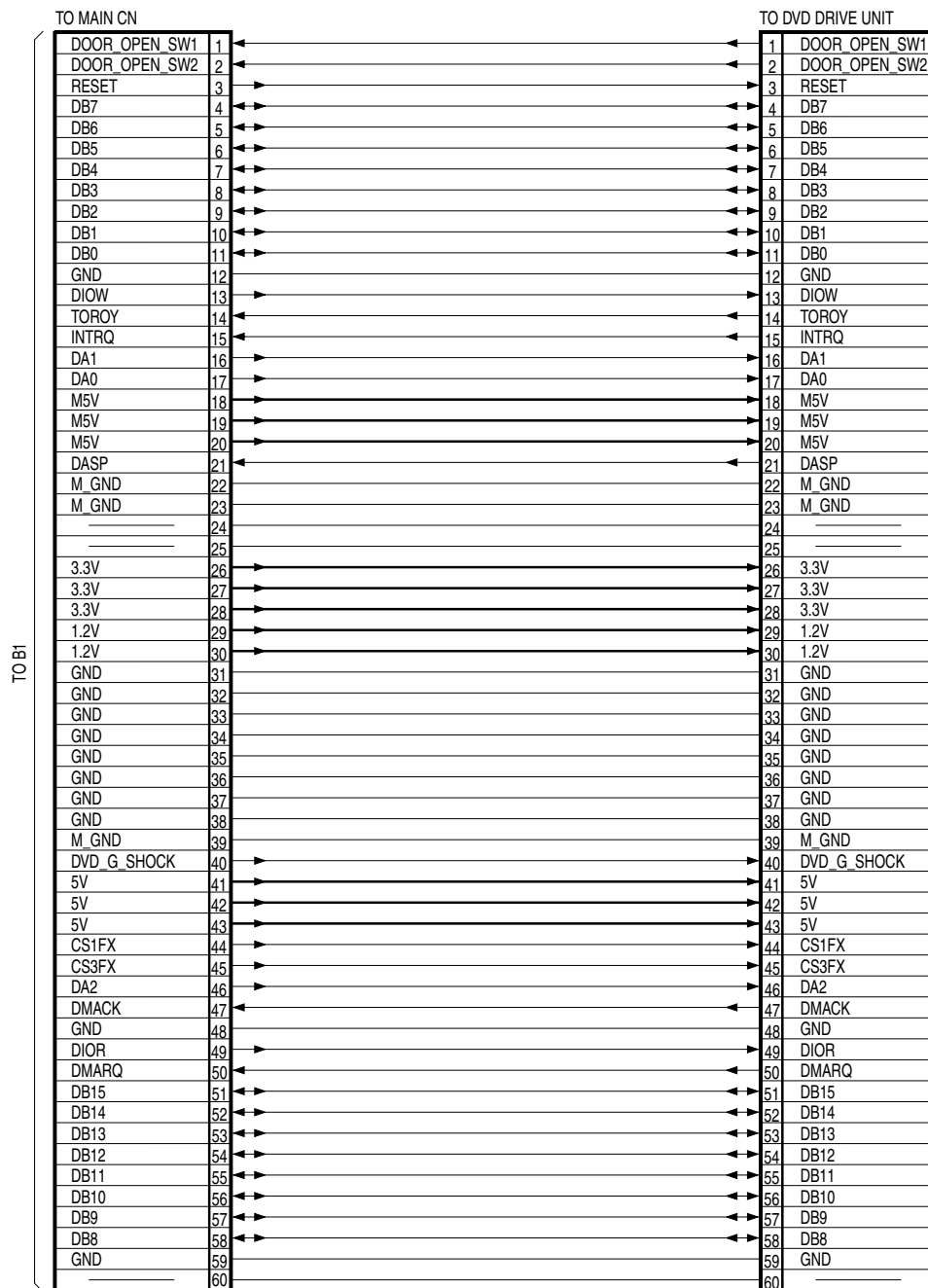
(DISC COVER LOCK UNIT)

"FOR REFERENCE ONLY"



VDR-D250P/PC  
DISK COVER UNIT SCHEMATIC DIAGRAM

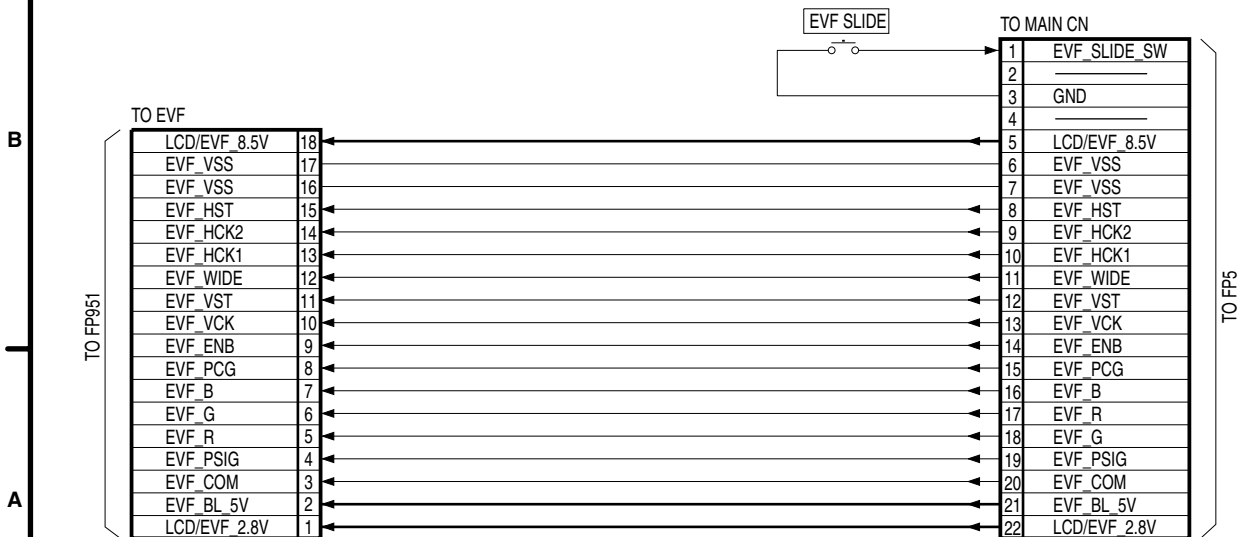
(DVD DRIVE FPC)  
"FOR REFERENCE ONLY"



VDR-D250P/PC  
DVD DRIVE FPC SCHEMATIC DIAGRAM

(EVF FPC)

"FOR REFERENCE ONLY"



VDR-D250P/PC  
EVF FPC SCHEMATIC DIAGRAM



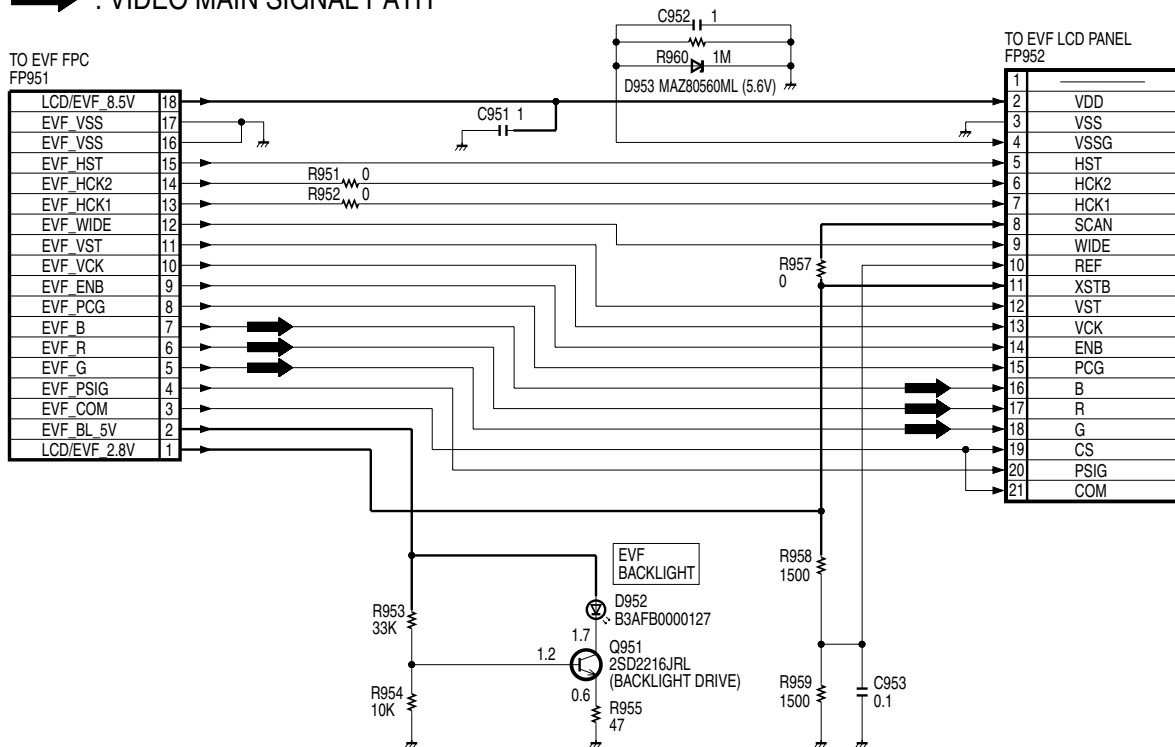
(EVF P.C.B.)

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(EVF:ON)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH



VDR-D250P/PC  
EVF SCHEMATIC DIAGRAM

(FRONT FPC)

"FOR REFERENCE ONLY"



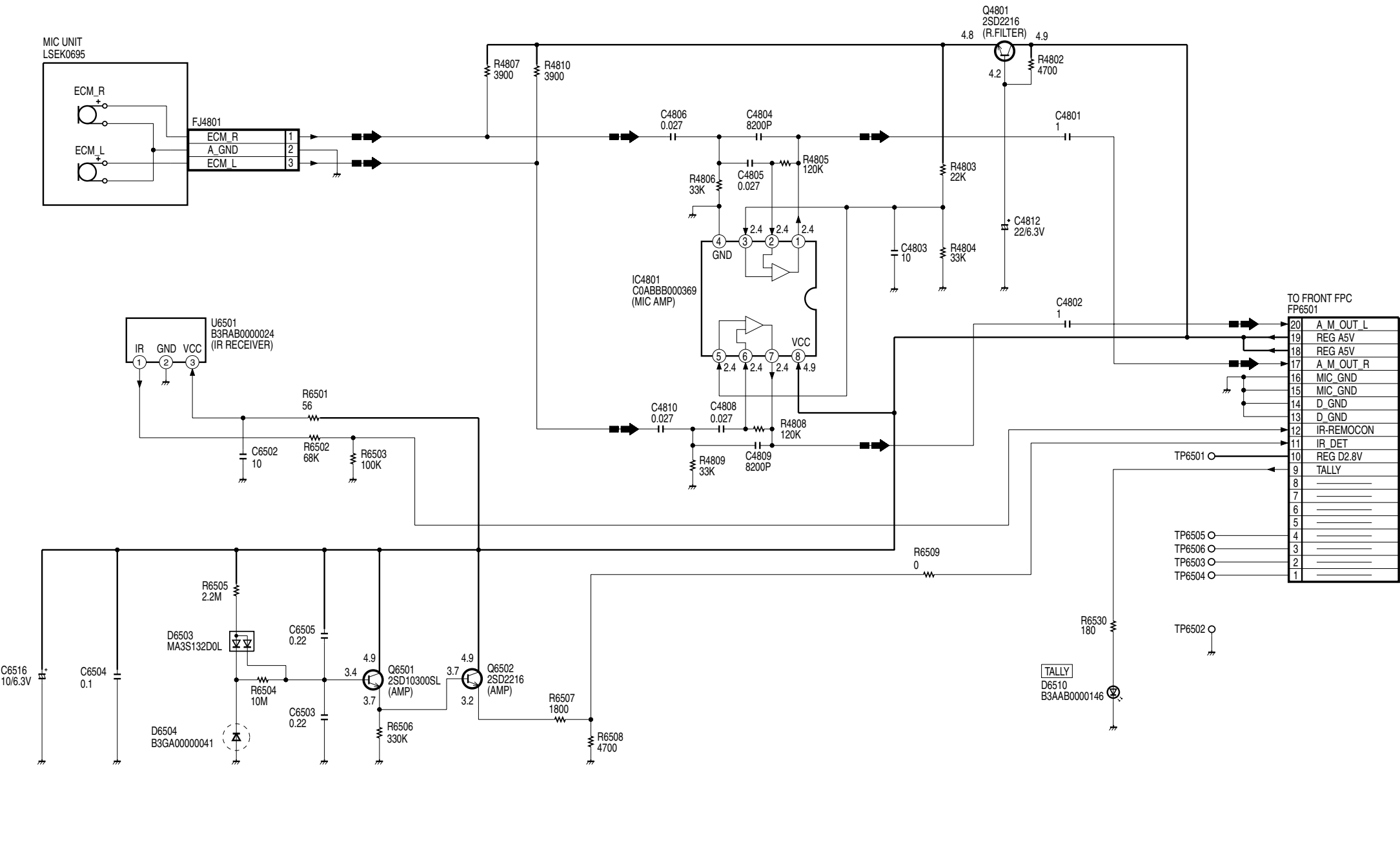
VDR-D250P/PC  
FRONT FPC SCHEMATIC DIAGRAM

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

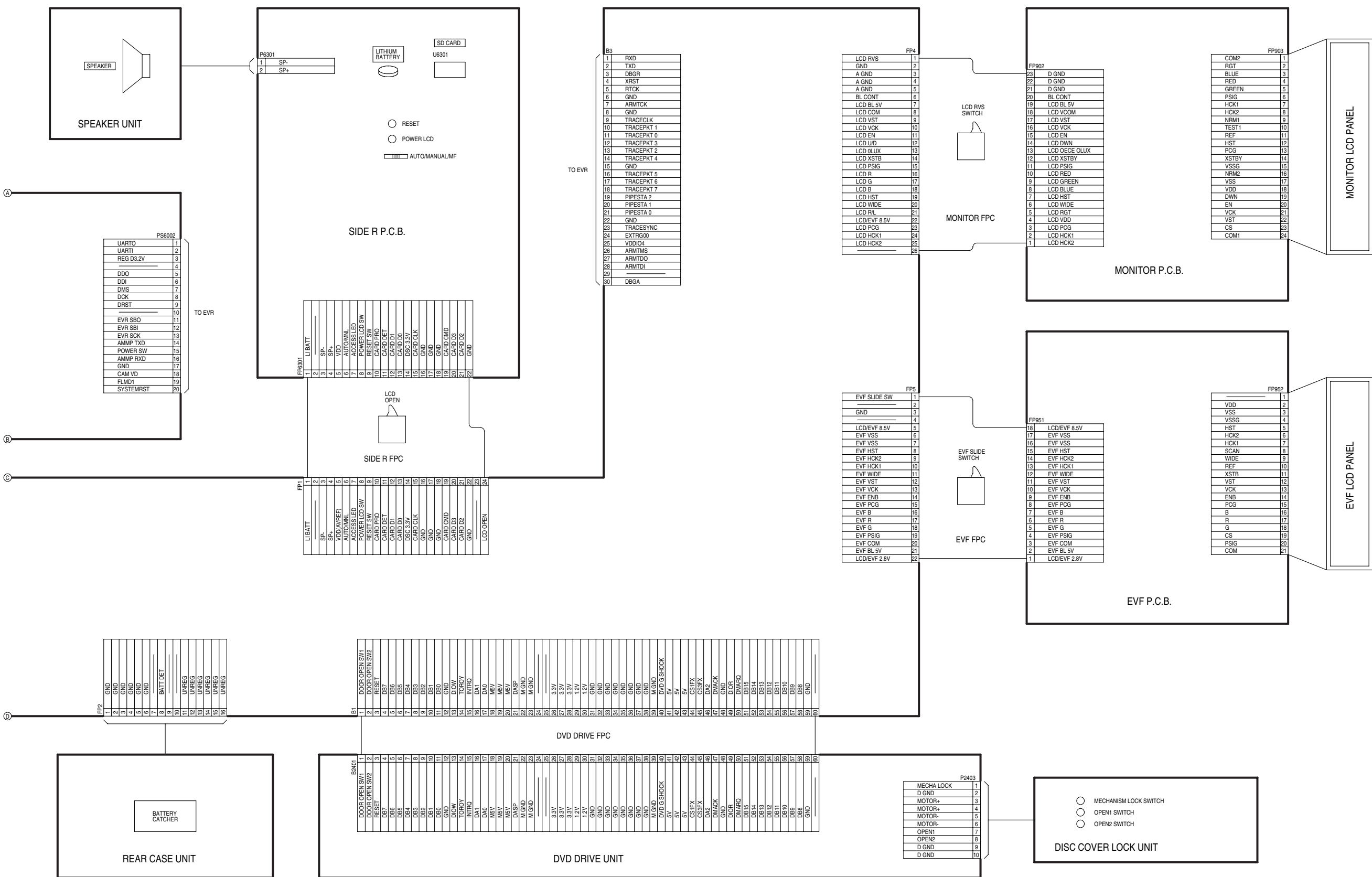
NOTE:  
THE MEASUREMENT MODE OF THE DC  
VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : AUDIO MAIN SIGNAL PATH IN REC MODE

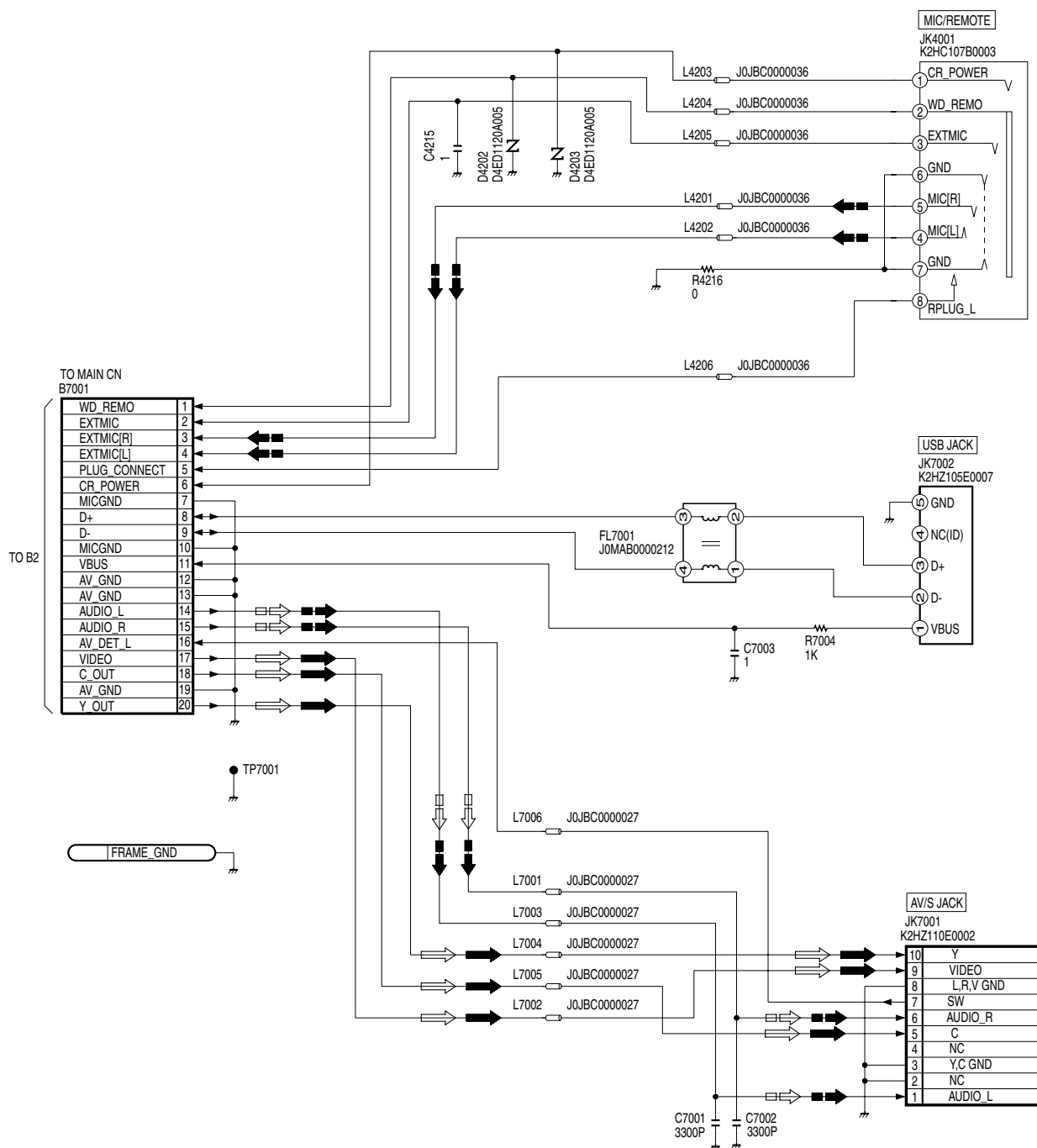






NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART, PLEASE REFER  
TO PARTS LIST.

- ➡ : VIDEO MAIN SIGNAL PATH IN REC MODE  
 ➡ : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE  
 ➡ : AUDIO MAIN SIGNAL PATH IN REC MODE  
 ➡ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



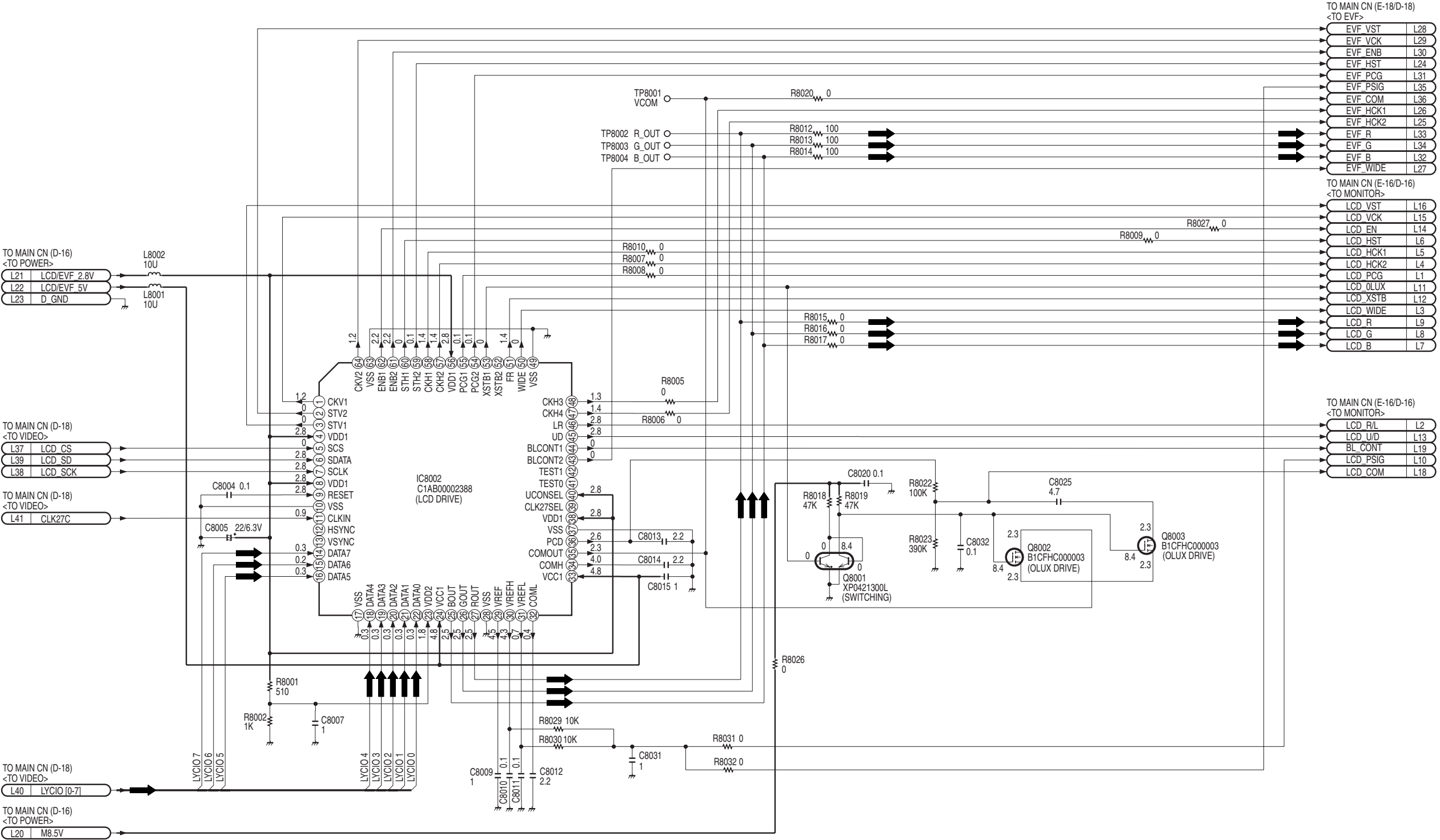
(MAIN P.C.B.)  
REFER TO MAIN CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS  
DIAGRAM IS STOP MODE.(MONITOR:ON)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT,BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH



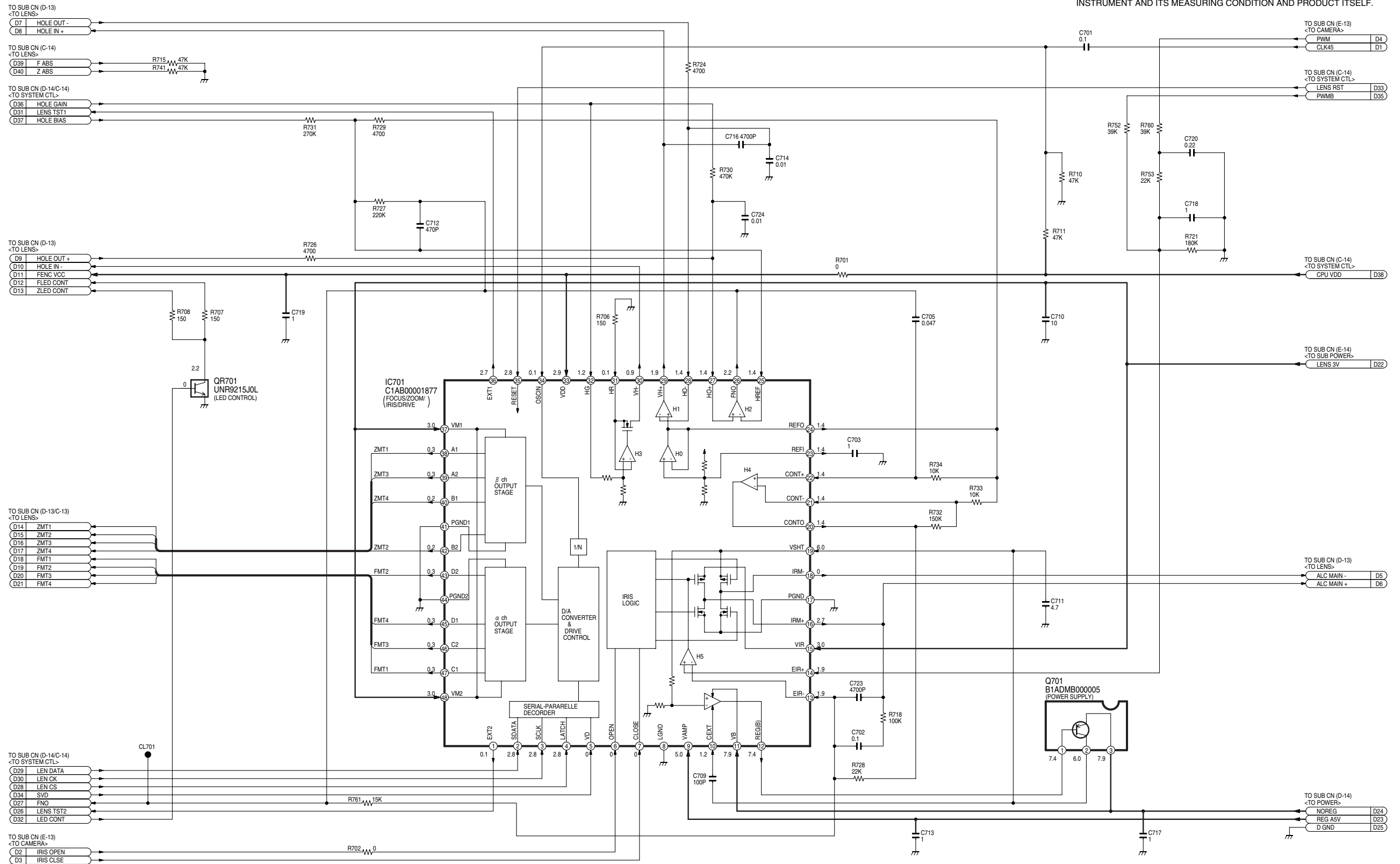
(SUB P.C.B.)

REFER TO SUB CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

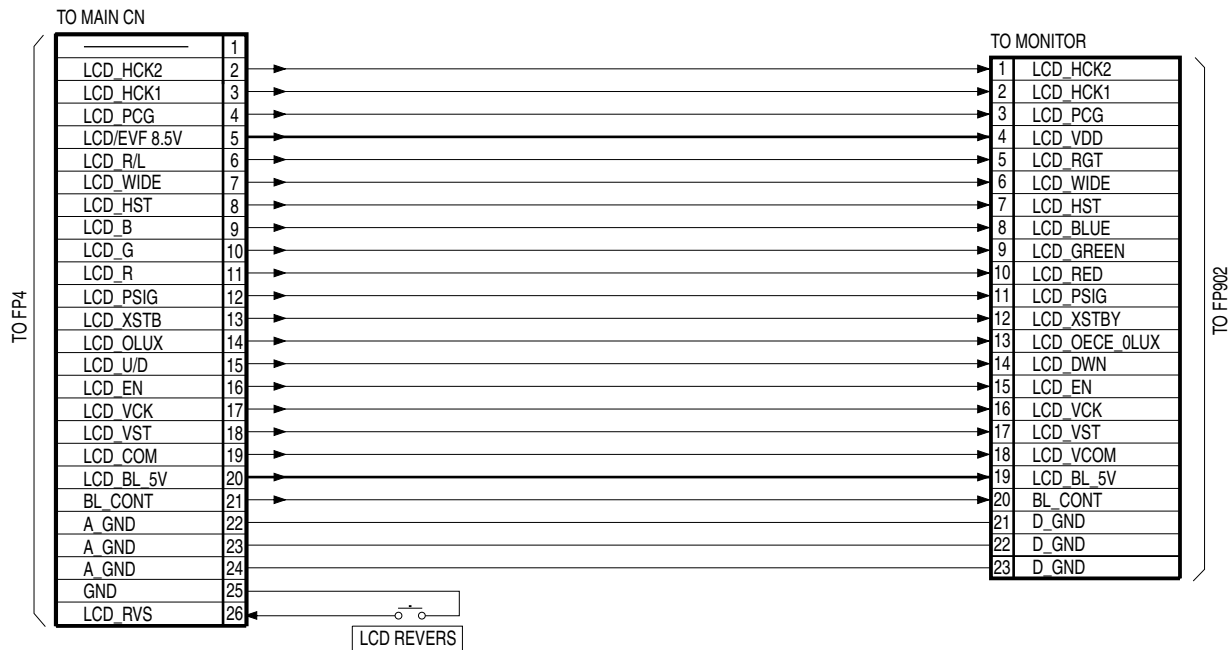
NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.



VDR-D250P/PC  
SUB (LENS DRIVE) SCHEMATIC DIAGRAM



(MONITOR FPC)  
"FOR REFERENCE ONLY"



VDR-D250P/PC  
MONITOR SCHEMATIC DIAGRAM

G

F

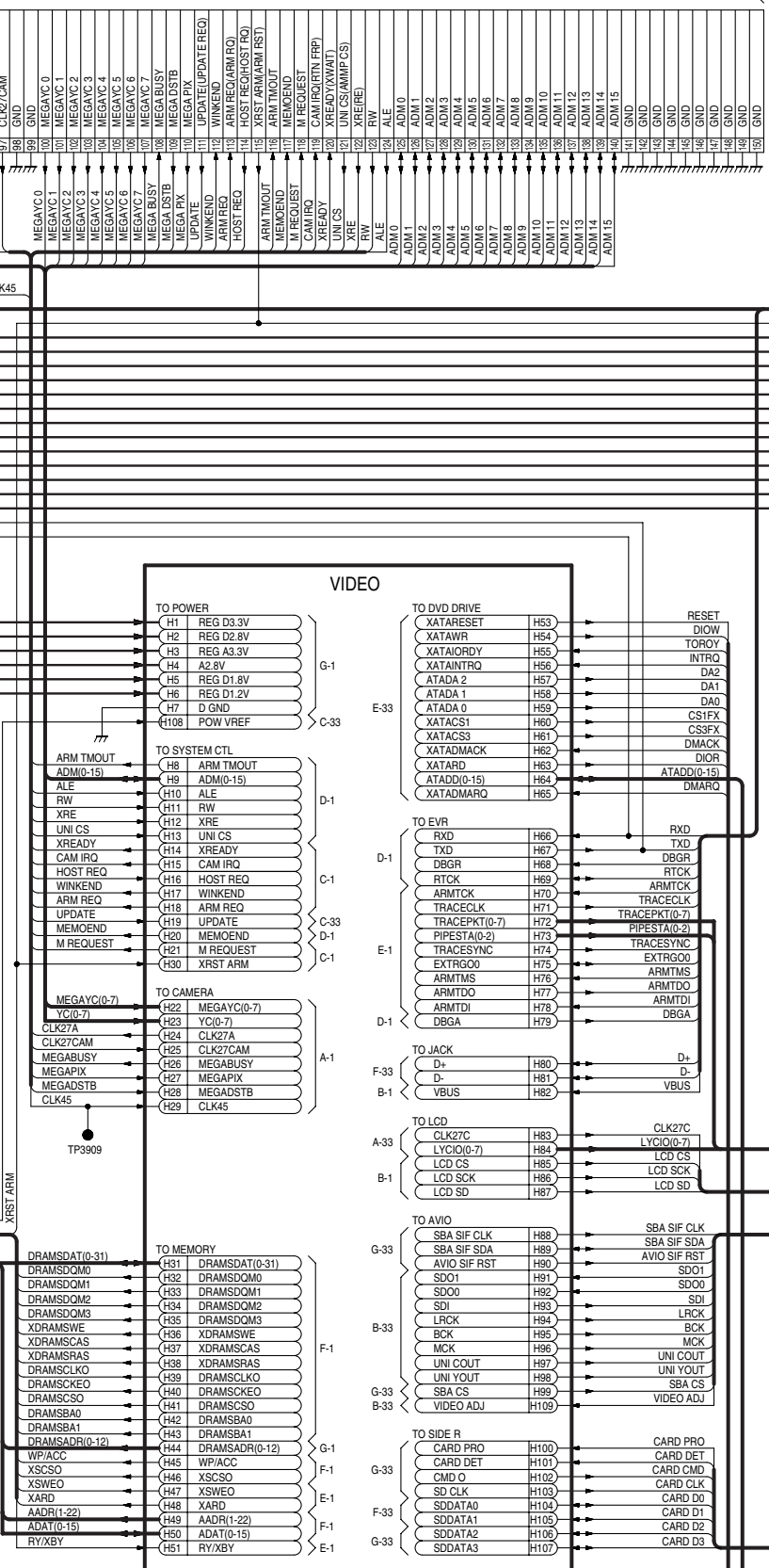
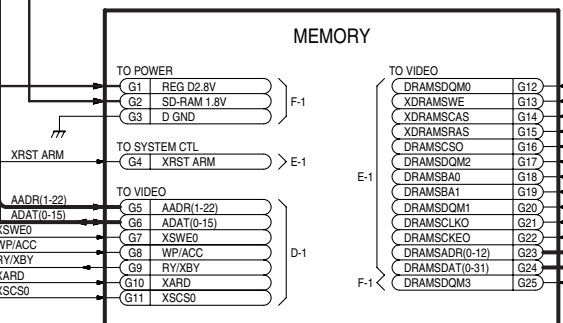
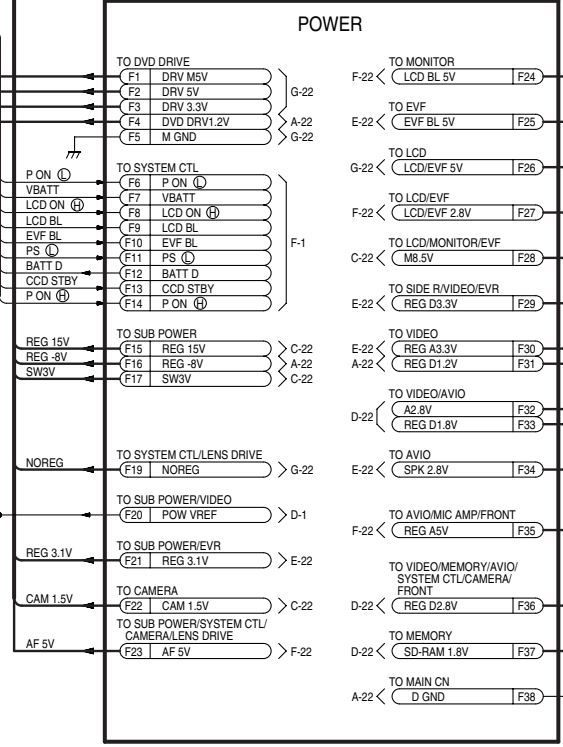
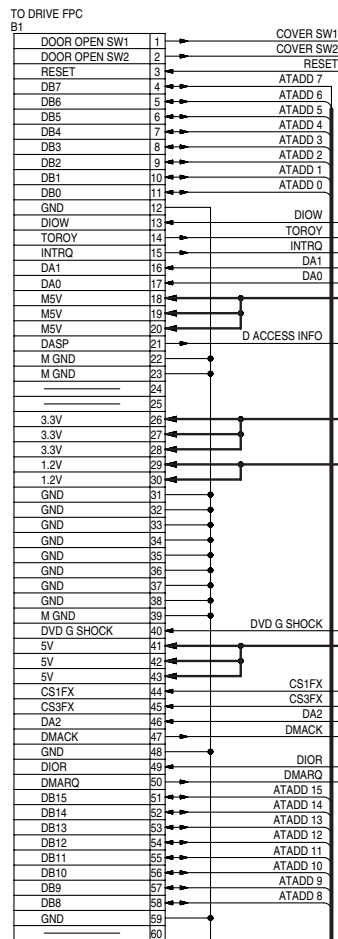
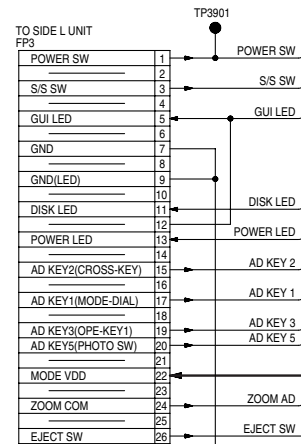
E

D

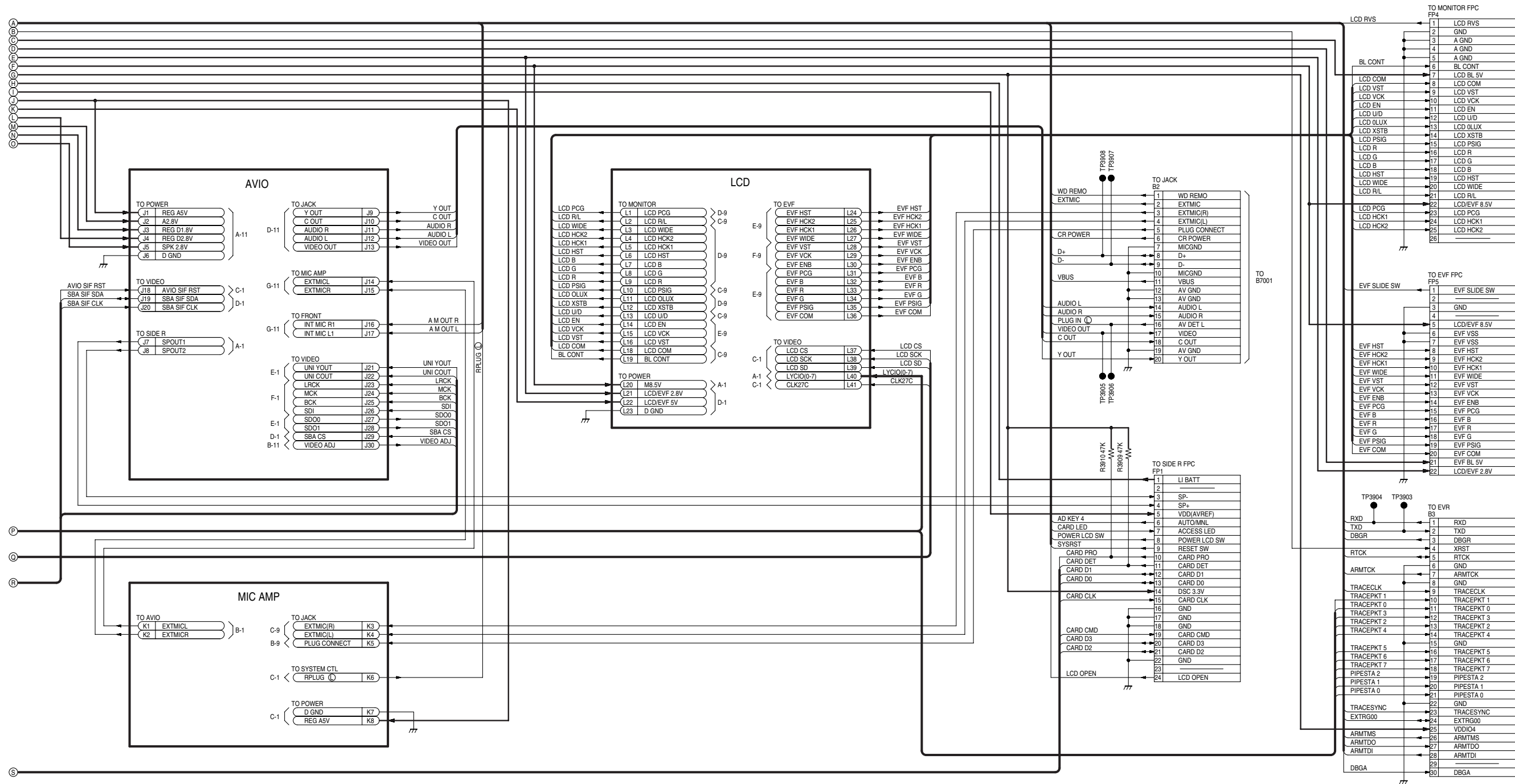
C

B

A



NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

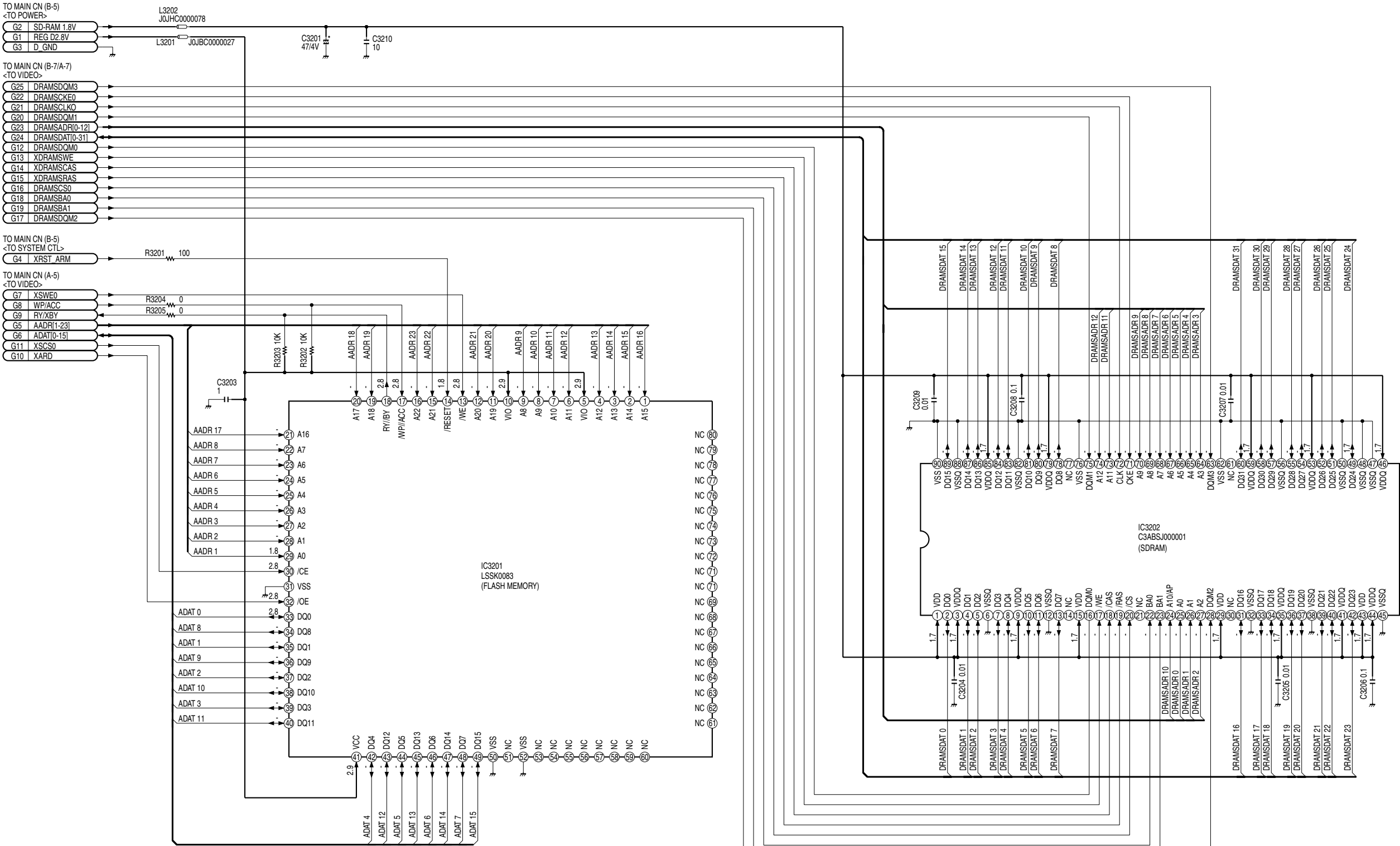


(MAIN P.C.B.)  
REFER TO MAIN CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
ON THIS DIAGRAM IS PLAYBACK MODE.  
THE MEASUREMENT MODE OF THE DC VOLTAGE  
IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD  
MODE.(SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY  
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INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.



VDR-D250P/PC  
MAIN (MEMORY) SCHEMATIC DIAGRAM

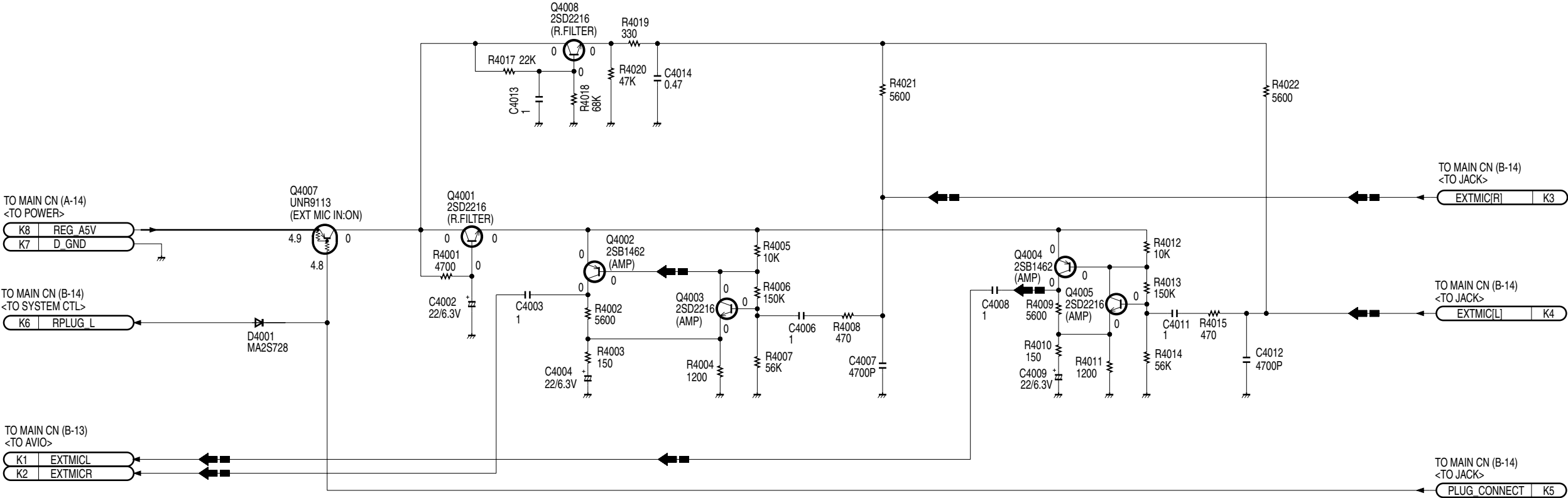
(MAIN P.C.B.)  
REFER TO MAIN CONNECTION

NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE. THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : AUDIO MAIN SIGNAL PATH IN REC MODE

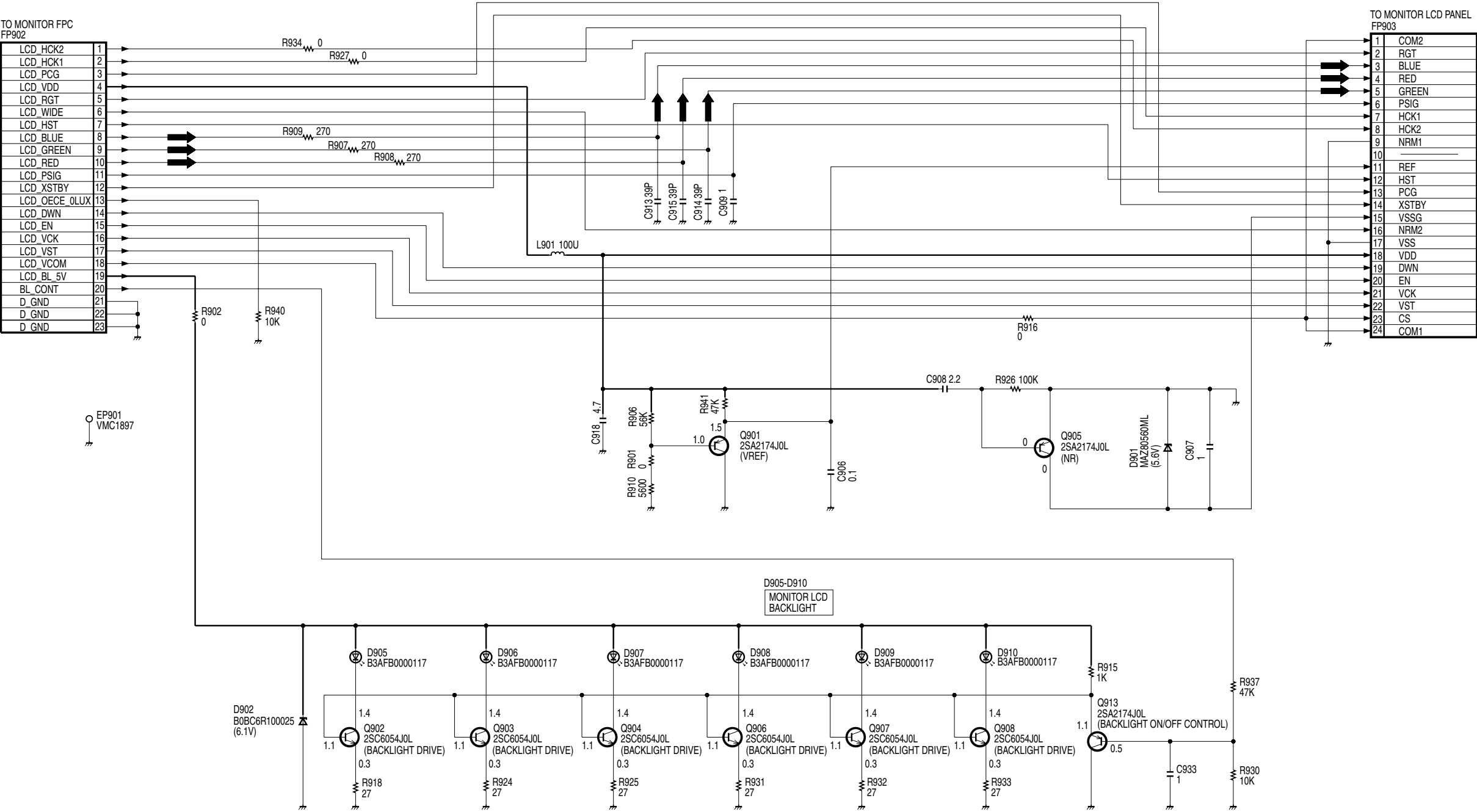


NOTE:  
DO NOT USE ANY PART NUMBER SHOWN ON  
THIS SCHEMATIC DIAGRAM FOR ORDERING.  
WHEN YOU ORDER A PART,PLEASE REFER  
TO PARTS LIST.

NOTE:  
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS  
DIAGRAM IS STOP MODE.(MONITOR:ON)

NOTE:  
CIRCUIT VOLTAGE AND WAVEFORM DESCRIBED HEREIN SHALL BE REGARDED  
AS REFERENCE INFORMATION WHEN PROBING DEFECT POINT.BECAUSE IT MAY  
DIFFER FROM AN ACTUAL MEASURING VALUE DUE TO DIFFERENCE OF MEASURING  
INSTRUMENT AND ITS MEASURING CONDITION AND PRODUCT ITSELF.

➡ : VIDEO MAIN SIGNAL PATH



REFER TO MAIN CONNECTION

